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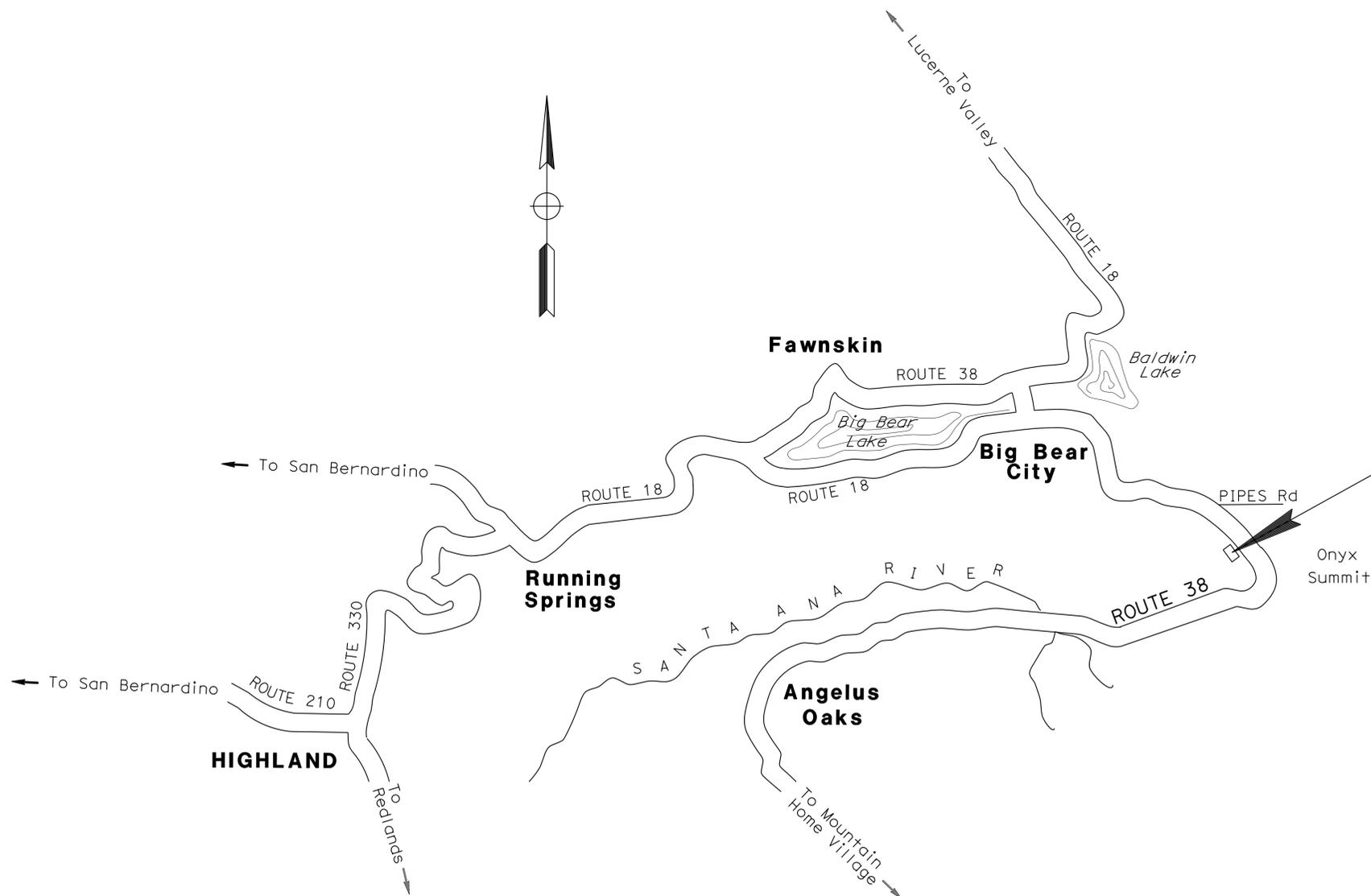
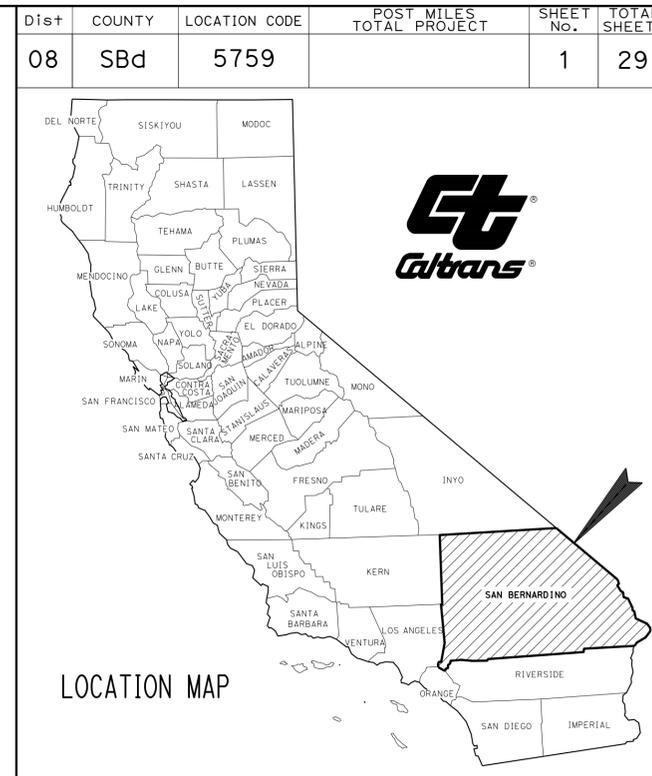
BUILDING PLANS

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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR BUILDING CONSTRUCTION
IN SAN BERNARDINO COUNTY
0.7 MILE SOUTH OF PIPES ROAD
AT ONYX SUMMIT

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

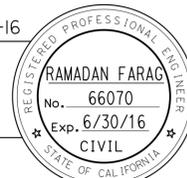


LOCATION OF CONSTRUCTION
ONYX SUMMIT SANDHOUSE
LOCATION CODE 5759
ROUTE 38 PM 38.6

NO SCALE

PROJECT MANAGER
MICHAEL RISTIC
 DESIGN MANAGER
JAMES LAN

R. FARAG 01-25-16
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



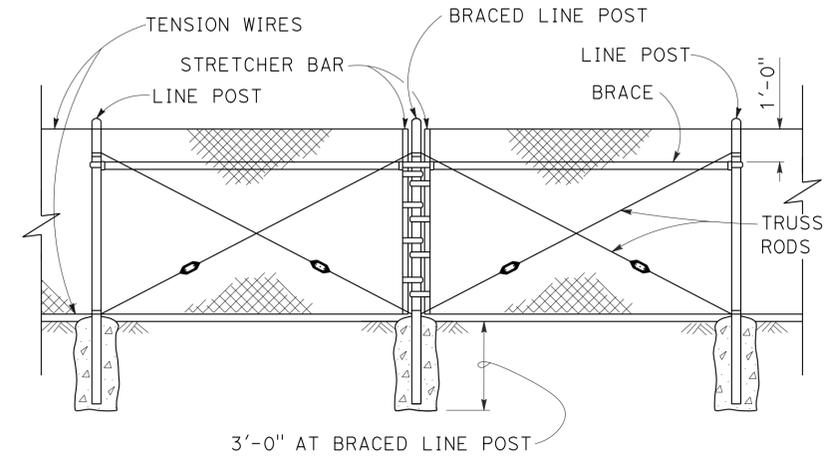
January 25, 2016
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	08-1F1104
PROJECT ID	0814000160

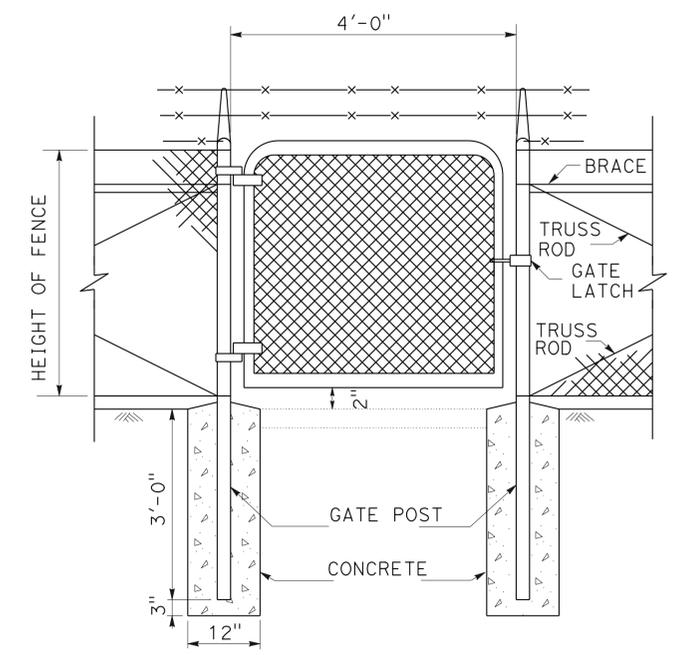
NOTES:

- The table below shows minimum sized posts and braces complying with the Specifications. Larger or heavier post and brace sizes may be used upon approval.
- Sections shown in the tables must comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
- Options exercised shall be uniform on any one project.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
- See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.
- Offset to be 1'-0" at monument locations, measured at right angles to FL line.

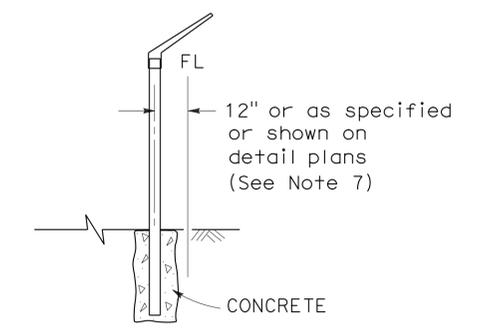


BRACED LINE POST INSTALLATION

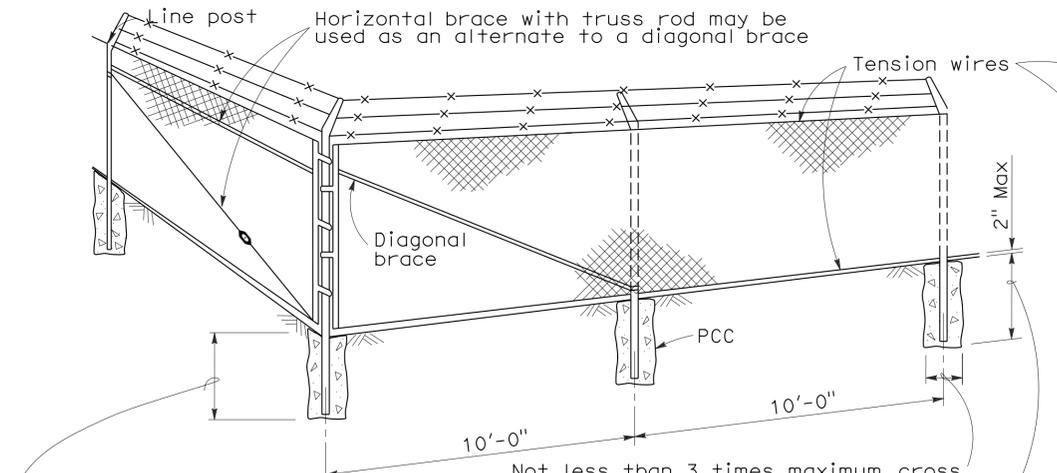
Braced line post at intervals not exceeding 1000'



4' CHAIN LINK GATE (TYPE CL 6, EXTENSION ARM)



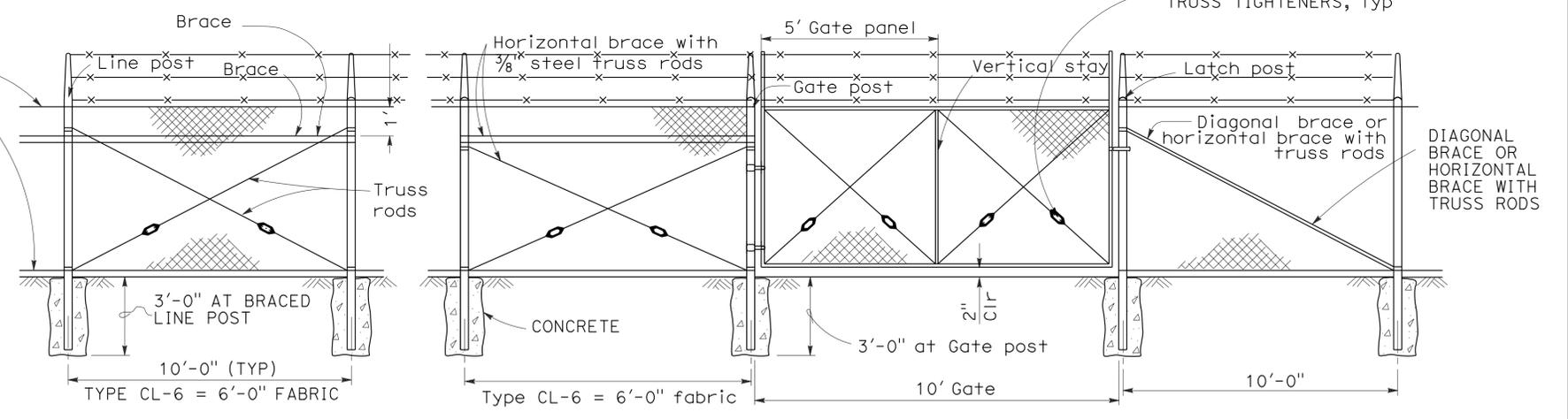
FENCE LOCATION



END AND CORNER POST ASSEMBLY

Not less than 3 times maximum cross section of post with minimum of 8"

2'-6" FOR FABRIC LESS THAN 5'-0" HIGH
 3'-0" FOR FABRIC 5'-0" AND OVER



CL-6 FENCE AND GATE

TYPICAL MEMBER DIMENSIONS (See Notes)										
FENCE HEIGHT	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

GATE POST			
FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT PER FOOT
6'-0"	10'-0"	4.5"	10.80 LB

Above post dimensions and weight are minimums. Larger sizes may be used on approval of the Engineer.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING
 RAMADAN FARAG
 MICHAEL RISTIC
 JAMES LAN
 01-25-16 10:54

Dist	COUNTY	LOCATION	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	5759		4	29

<i>R. FARAG</i>	01-25-16
REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	01-25-16

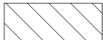
REGISTERED PROFESSIONAL ENGINEER
RAMADAN FARAG
No. 66070
Exp 6/30/16
CIVIL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

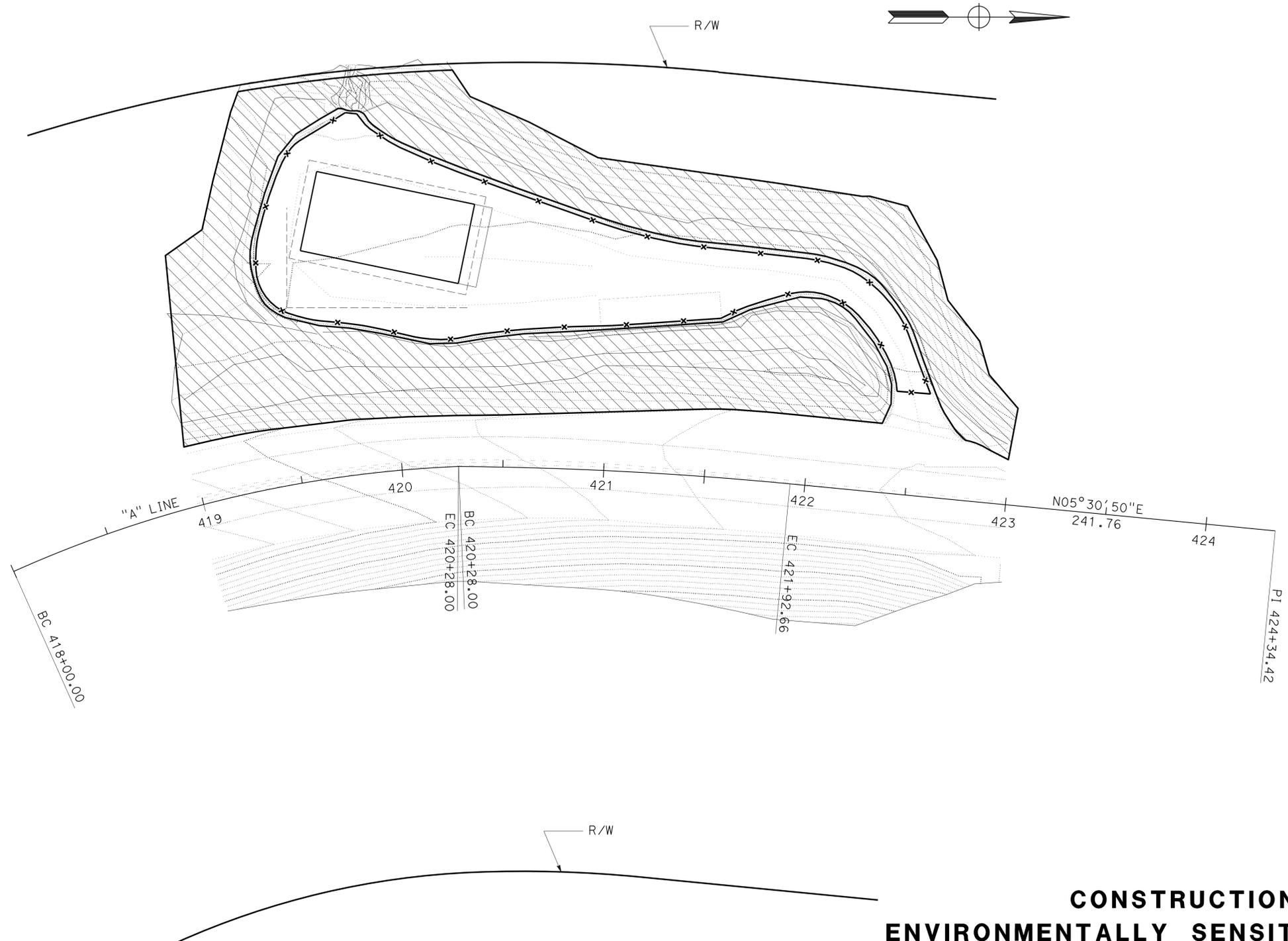
NOTES:

- No construction activities are allowed within the Environmentally Sensitive Area (ESA)

LEGEND:

 Environmentally Sensitive Area (ESA)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	JAMES LAN	JAMES LAN	RAMADAN FARAG
MAINTENANCE ENGINEERING	CHECKED BY	DATE	DATE



CONSTRUCTION DETAILS
ENVIRONMENTALLY SENSITIVE AREA

SCALE 1"=30'

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR
 JAMES LAN

CALCULATED/DESIGNED BY
 CHECKED BY

RAMADAN FARAG
 MICHAEL RISTIC

REVISED BY
 DATE REVISED

Dist	COUNTY	LOCATION	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	5759		5	29

R. FARAG 01-25-16
 REGISTERED CIVIL ENGINEER DATE
 01-25-16
 PLANS APPROVAL DATE

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MISCELLANEOUS QUANTITIES

QUANTITIES	QUANTITY		
	LF	EA	TON
CHAIN LINK FENCE (TYPE CL-6, WITH EXTENSION ARM)	875		
10' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)		1	
4' CHAIN LINK GATE (WALK GATE, TYPE CL-6, EXTENSION ARM)		1	
MINOR HOT MIX ASPHALT			45
LIQUID ASPHALT (PRIME COAT)			3
TACK COAT			0.4

TEMPORARY WATER POLLUTION CONTROL

ITEM	UNIT	QUANTITY
TEMPORARY CONCRETE WASHOUT	LS	1
TEMPORARY FIBER ROLL	LF	1000
TEMPORARY COVER	SQYD	800
TEMPORARY GRAVEL BAG BERM	LF	1000

**SUMMARY OF QUANTITIES
 Q-1**

LAST REVISION | DATE PLOTTED => 22-MAR-2016
 01-25-16 | TIME PLOTTED => 10:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	5759		6	29

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 01-25-16

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

<p>Maint MAINTENANCE</p> <p>Max MAXIMUM</p> <p>MB METAL BEAM</p> <p>MBB METAL BEAM BARRIER</p> <p>MBGR METAL BEAM GUARD RAILING</p> <p>Med MEDIAN</p> <p>MGS MIDWEST GUARDRAIL SYSTEM</p> <p>MH MANHOLE</p> <p>Min MINIMUM</p> <p>Misc MISCELLANEOUS</p> <p>Misc I & S MISCELLANEOUS IRON AND STEEL</p> <p>Mkr MARKER</p> <p>Mod MODIFIED, MODIFY</p> <p>Mon MONUMENT</p> <p>MP METAL PLATE</p> <p>MPGR METAL PLATE GUARD RAILING</p> <p>MR MOVEMENT RATING</p> <p>MSE MECHANICALLY STABILIZED EMBANKMENT</p> <p>Mt MOUNTAIN, MOUNT</p> <p>MtI MATERIAL</p> <p>MVP MAINTENANCE VEHICLE PULLOUT</p> <p>N NORTH</p> <p>NB NORTHBOUND</p> <p>No. NUMBER (MUST HAVE PERIOD)</p> <p>Nos. NUMBERS (MUST HAVE PERIOD)</p> <p>NPS NOMINAL PIPE SIZE</p> <p>NS NEAR SIDE</p> <p>NSP NEW STANDARD PLAN</p> <p>NTS NOT TO SCALE</p> <p>Obir OBLITERATE</p> <p>OC OVERCROSSING</p> <p>OD OUTSIDE DIAMETER</p> <p>OF OUTSIDE FACE</p> <p>OG ORIGINAL GROUND</p> <p>OGAC OPEN GRADED ASPHALT CONCRETE</p> <p>OGFC OPEN GRADED FRICTION COURSE</p> <p>OH OVERHEAD</p> <p>OHWM ORDINARY HIGH WATER MARK</p> <p>O-O OUT TO OUT</p> <p>Opp OPPOSITE</p> <p>OSD OVERSIDE DRAIN</p> <p>p PAGE</p> <p>PAP PERFORATED ALUMINUM PIPE</p> <p>PB PULL BOX</p> <p>PC POINT OF CURVATURE, PRECAST</p> <p>PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE</p> <p>PCMS PORTABLE CHANGEABLE MESSAGE SIGN</p> <p>PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE</p> <p>PCVC POINT OF COMPOUND VERTICAL CURVE</p> <p>PEC PERMIT TO ENTER AND CONSTRUCT</p> <p>Ped PEDESTRIAN</p> <p>Ped OC PEDESTRIAN OVERCROSSING</p> <p>Ped UC PEDESTRIAN UNDERCROSSING</p> <p>Perm MtI PERMEABLE MATERIAL</p>	<p style="text-align: center;">M</p>	<p>PG PROFILE GRADE</p> <p>PI POINT OF INTERSECTION</p> <p>PJP PARTIAL JOINT PENETRATION</p> <p>Pkwy PARKWAY</p> <p>PL, PL PLATE</p> <p>P/L PROPERTY LINE</p> <p>PM POST MILE, TIME FROM NOON TO MIDNIGHT</p> <p>PN PAVING NOTCH</p> <p>POC POINT OF HORIZONTAL CURVE</p> <p>POT POINT OF TANGENT</p> <p>POVC POINT OF VERTICAL CURVE</p> <p>PP PIPE PILE, PLASTIC PIPE, POWER POLE</p> <p>PPL PREFORMED PERMEABLE LINER</p> <p>PPP PERFORATED PLASTIC PIPE</p> <p>PRC POINT OF REVERSE CURVE</p> <p>PRF PAVEMENT REINFORCING FABRIC</p> <p>PRVC POINT OF REVERSE VERTICAL CURVE</p> <p>PS&E PLANS, SPECIFICATIONS AND ESTIMATES</p> <p>PS, P/S PRESTRESSED</p> <p>PSP PERFORATED STEEL PIPE</p> <p>PT POINT OF TANGENCY</p> <p>PVC POLYVINYL CHLORIDE</p> <p>Pvmt PAVEMENT</p> <p>Qty QUANTITY</p> <p>R RADIUS</p> <p>R & D REMOVE AND DISPOSE</p> <p>R & S REMOVE AND SALVAGE</p> <p>R/C RATE OF CHANGE</p> <p>RCA REINFORCED CONCRETE ARCH</p> <p>RCB REINFORCED CONCRETE BOX</p> <p>RCP REINFORCED CONCRETE PIPE</p> <p>RCPA REINFORCED CONCRETE PIPE ARCH</p> <p>Rd ROAD</p> <p>Reinf REINFORCED, REINFORCEMENT, REINFORCING</p> <p>Rel RELOCATE</p> <p>Repl REPLACEMENT</p> <p>Ret RETAINING</p> <p>Rev REVISED, REVISION</p> <p>Rdwy ROADWAY</p> <p>RHMA RUBBERIZED HOT MIX ASPHALT</p> <p>Riv RIVER</p> <p>RM ROAD-MIXED</p> <p>RP RADIUS POINT, REFERENCE POINT</p> <p>RR RAILROAD</p> <p>RSP ROCK SLOPE PROTECTION, REVISED STANDARD PLAN</p> <p>Rt RIGHT</p> <p>Rte ROUTE</p> <p>RW REDWOOD, RETAINING WALL</p> <p>R/W RIGHT OF WAY</p> <p>Rwy RAILWAY</p>	<p style="text-align: center;">P continued</p>	<p>S SOUTH, SUPPLEMENT</p> <p>SAE STRUCTURE APPROACH EMBANKMENT</p> <p>Salv SALVAGE</p> <p>SAPP STRUCTURAL ALUMINUM PLATE PIPE</p> <p>SB SOUTHBOUND</p> <p>SC SAND CUSHION</p> <p>SCSP SLOTTED CORRUGATED STEEL PIPE</p> <p>SD STORM DRAIN</p> <p>Sec SECOND, SECTION</p> <p>Sep SEPARATION</p> <p>SG SUBGRADE</p> <p>Shld SHOULDER</p> <p>Sht SHEET</p> <p>Sim SIMILAR</p> <p>SL STATION LINE</p> <p>SM SELECTED MATERIAL</p> <p>Spec SPECIAL, SPECIFICATIONS</p> <p>SPP SLOTTED PLASTIC PIPE</p> <p>SS SLOPE STAKE</p> <p>SSBM STRAP AND SADDLE BRACKET METHOD</p> <p>SSD STRUCTURAL SECTION DRAIN</p> <p>SSPA STRUCTURAL STEEL PLATE ARCH</p> <p>SSPP STRUCTURAL STEEL PLATE PIPE</p> <p>SSPPA STRUCTURAL STEEL PLATE PIPE ARCH</p> <p>SSRP STEEL SPIRAL RIB PIPE</p> <p>St STREET</p> <p>Sta STATION</p> <p>STBB SINGLE THRIE BEAM BARRIER</p> <p>Std STANDARD</p> <p>Str STRUCTURE</p> <p>Surf SURFACING</p> <p>SW SIDEWALK, SOUND WALL</p> <p>Swr SEWER</p> <p>Sym SYMMETRICAL</p> <p>S4S SURFACE 4 SIDES</p> <p>T SEMI-TANGENT</p> <p>Tan TANGENT</p> <p>TBB THRIE BEAM BARRIER</p> <p>Tbr TIMBER</p> <p>TC TOP OF CURB</p> <p>TCB TRAFFIC CONTROL BOX</p> <p>TCE TEMPORARY CONSTRUCTION EASEMENT</p> <p>Tel TELEPHONE</p> <p>Temp TEMPORARY</p> <p>TG TOP OF GRADE</p> <p>Tot TOTAL</p> <p>TP TELEPHONE POLE</p> <p>TPB TREATED PERMEABLE BASE</p> <p>TPM TREATED PERMEABLE MATERIAL</p> <p>Trans TRANSITION</p>	<p style="text-align: center;">S</p>	<p>TS TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL</p> <p>Typ TYPICAL</p> <p>UC UNDERCROSSING</p> <p>UD UNDERDRAIN</p> <p>UG UNDERGROUND</p> <p>UON UNLESS OTHERWISE NOTED</p> <p>UP UNDERPASS</p> <p>V VALVE, DESIGN SPEED</p> <p>Var VARIABLE, VARIES</p> <p>VC VERTICAL CURVE</p> <p>VCP VITRIFIED CLAY PIPE</p> <p>Vert VERTICAL</p> <p>Via VIADUCT</p> <p>Vol VOLUME</p> <p>W WEST, WIDTH</p> <p>WB WESTBOUND</p> <p>WH WEEP HOLE</p> <p>WM WIRE MESH</p> <p>WS WATER SURFACE</p> <p>WSP WELDED STEEL PIPE</p> <p>Wt WEIGHT</p> <p>WV WATER VALVE</p> <p>WW WINGWALL</p> <p>WWL WINGWALL LAYOUT LINE</p> <p>X Sec CROSS SECTION</p> <p>Xing CROSSING</p> <p>Yr YEAR</p> <p>Yrs YEARS</p>	<p style="text-align: center;">T continued</p>
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<p style="text-align: center;">N</p>	<p style="text-align: center;">Q</p>	<p style="text-align: center;">R</p>
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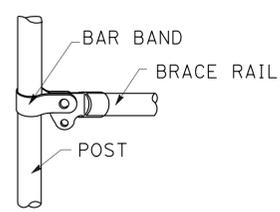
<p style="text-align: center;">U</p>	<p style="text-align: center;">V</p>	<p style="text-align: center;">W</p>	<p style="text-align: center;">X</p>	<p style="text-align: center;">Y</p>
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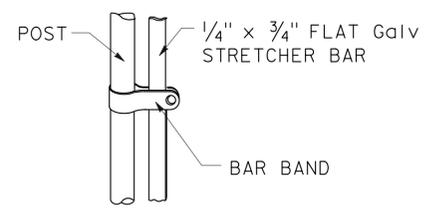
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	5759		7	29

Glenn DeCou
 REGISTERED CIVIL ENGINEER
 October 19, 2012
 PLANS APPROVAL DATE
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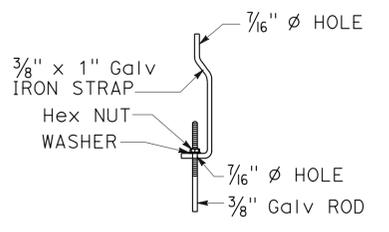
REGISTERED PROFESSIONAL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



BRACE RAIL



STRETCHER BAR

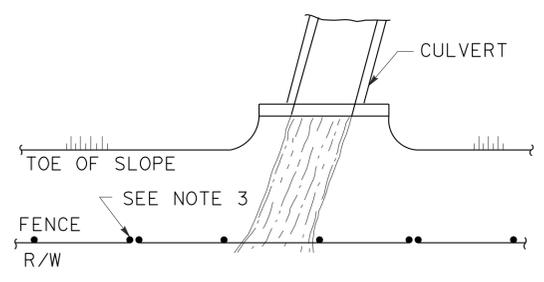


TRUSS TIGHTENER

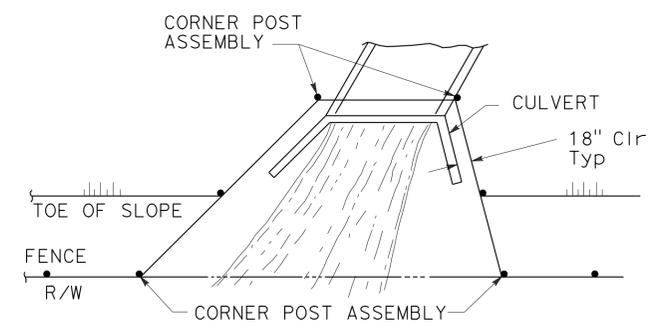
NOTES:

1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.

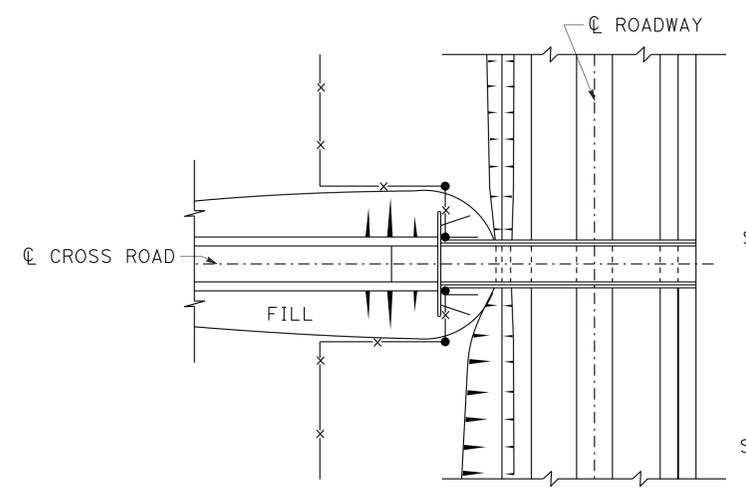
TO ACCOMPANY PLANS DATED 01-25-16



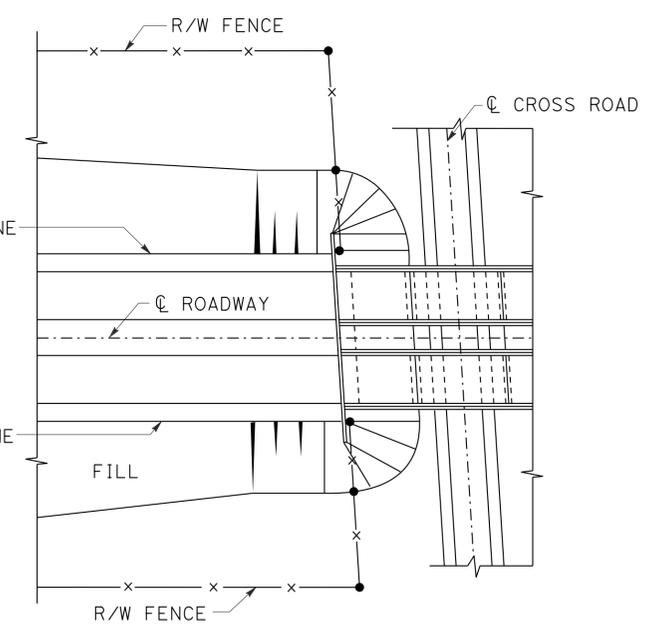
PLAN



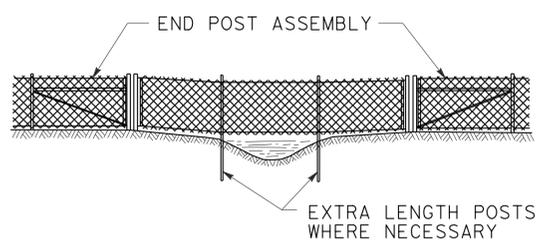
PLAN



PLAN OF ROADWAY - OVERCROSSING

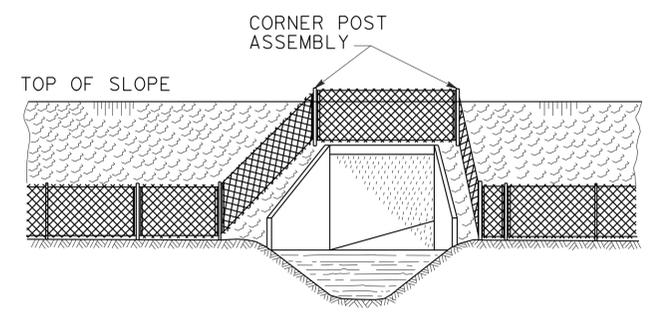


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

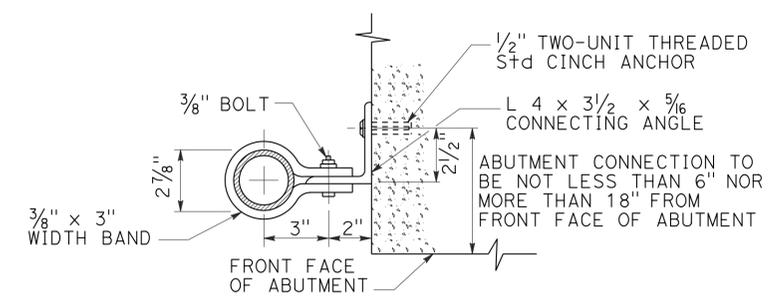
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B

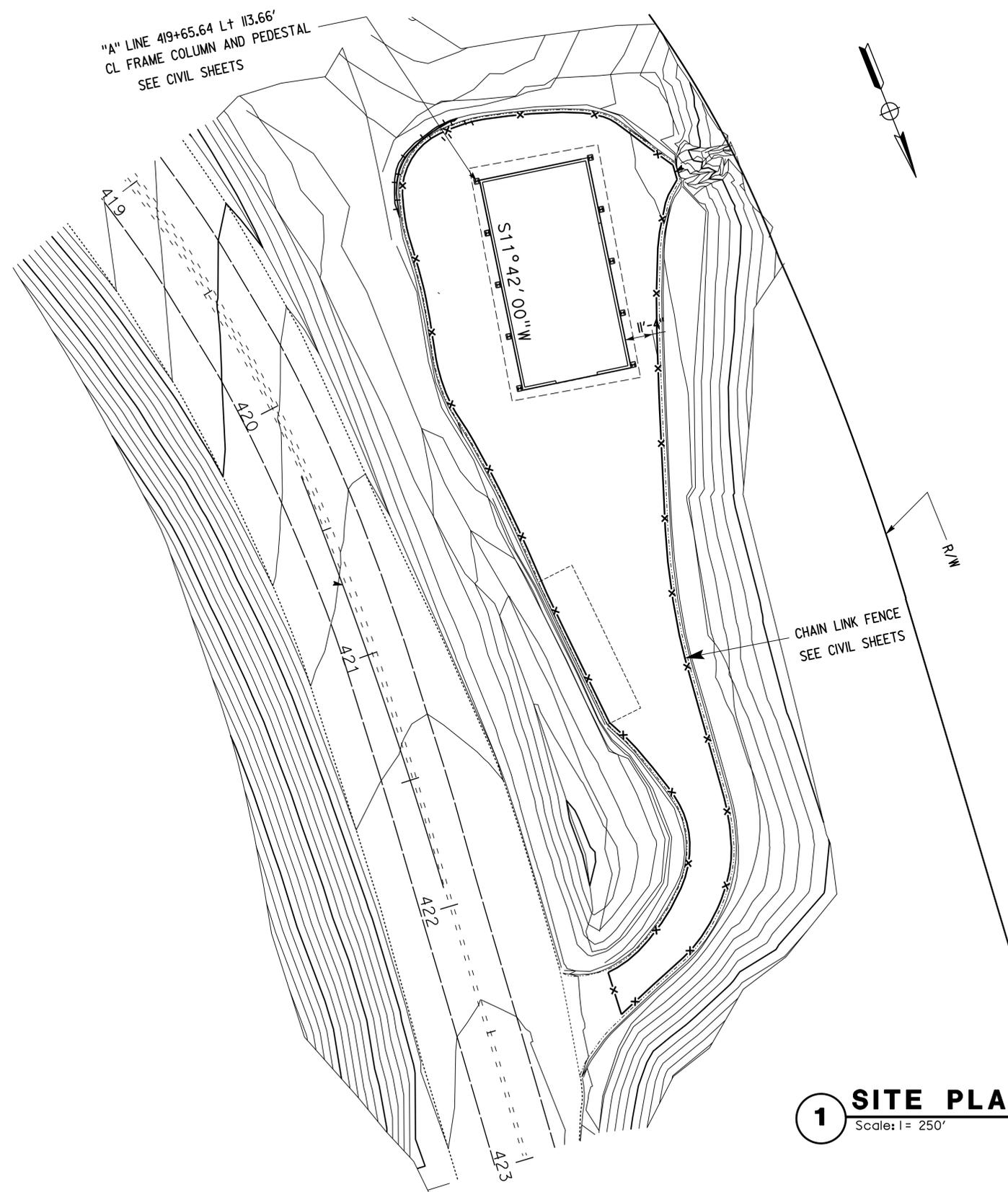
DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		8	29

Hassan Akhavan
LICENSED ARCHITECT
1-21-16

LICENSED ARCHITECT
Hassan Akhavan
No. C-20451
Exp. 04-30-17
STATE OF CALIFORNIA

1-25-16
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



ACCESSIBILITY NOTES:

THIS SAND HOUSE LOCATED IN SAN BERNARDINO COUNTY ON STATE ROUTE 38 0.7 MILES SOUTH OF PIPES ROAD THE ARCHITECT HAS VERIFIED THAT ALL SITE AREA IS GRADED AND FULLY COMPLIANT WITH THE CODE ACCESSIBILITY REQUIREMENTS, INCLUDING THE MAXIMUM SLOPE IN ANY DIRECTIONS BEING MAX OF 2% OR LESS. (E) ENTRANCE GATE MUST REMAIN IN OPEN POSITION DURING BUSINESS HOURS. NO PEDESTRIAN PATH OF TRAVEL (POT) WOULD BE NEEDED.

- (Items 1 thru 3 are for Information only)
The proposed stand-alone sand storage is situated at a remote and isolated site without any existing buildings, or designated parking spaces, or any water supply.
- The sand storage is an Intermittent facility not customarily occupied, frequented only by service vehicles. In the event it is to be accessed by pedestrians, any vehicle may park next to front concrete apron opposite the man door to allow driver/passenger to access the facility via such door.
- Refer to standard Exception to Access Compliance document on file for the exemption from plumbing fixture requirements otherwise mandated by the CA. Plumbing Code.
(Items 4 thru 6 are for the Contractor)
- Front concrete apron may have Max 4.5% slope in the direction of travel and max 1.5% cross slope.
- Any level change between front concrete apron and adjacent grade must be Max 1/2 inch W/ Max 1:2 slope. Level change not exceeding 1/4 inch may be vertical.
- Man door must have clear level areas on both sides of doors W/Max 1.5% slope in any direction. Clear level area at door front approach in the direction of door swing must be Min 60 inches deep x 60 inches wide (Including Min 24 inches pass door strike edge) at the exterior side of man door. Clear level area at door front approach in the direction of opposite door swing must be Min 48 inches deep x 36 inches wide at the interior side of man door.
- (Item 7 is for the Bldg User)
Aisles formed by any equipment/ stored materials/ walls must be Min 36 inches wide if serving one side, and Min 44 inches wide if serving both sides.

FIRE SEPARATION NOTES:

- Distance from Bldg face to the closest interior lot line or to the centerline of the adjacent Highway is more than 10 feet on all sides. Per 2013 CBC table 602, Fire-rated exterior walls are not required for type VB construction and occupancy group S-2.
 - No exterior wall opening on the south side of building. Fire Separation distance to the closet interior lot line on the north side of building is more than 30 feet. Per 2013 CBC table 705.8, no limit on the exterior wall opening.
- Fire separation to the closest interior lot line on the west side of building is between 10 feet and 15 feet. Per 2013 CBC table 705.8, allowed exterior wall opening for unprotected and nonsprinklered is 15%. Actual exterior wall opening is 60 SF / 1600 SF = 0.037 %
Fire separation distance to the centerline of adjacent Highway is more than 30 feet and per 2013 CBC table 705.8, no limit on the exterior wall opening.

ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

PROJECT ID
0814000160

Reviewed by: Y. A. WANG
Date: June 24, 2015

CALIFORNIA STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: Andrew McSorley
Approval date: 10/27/2015
CSFM # 01-36-11-0077

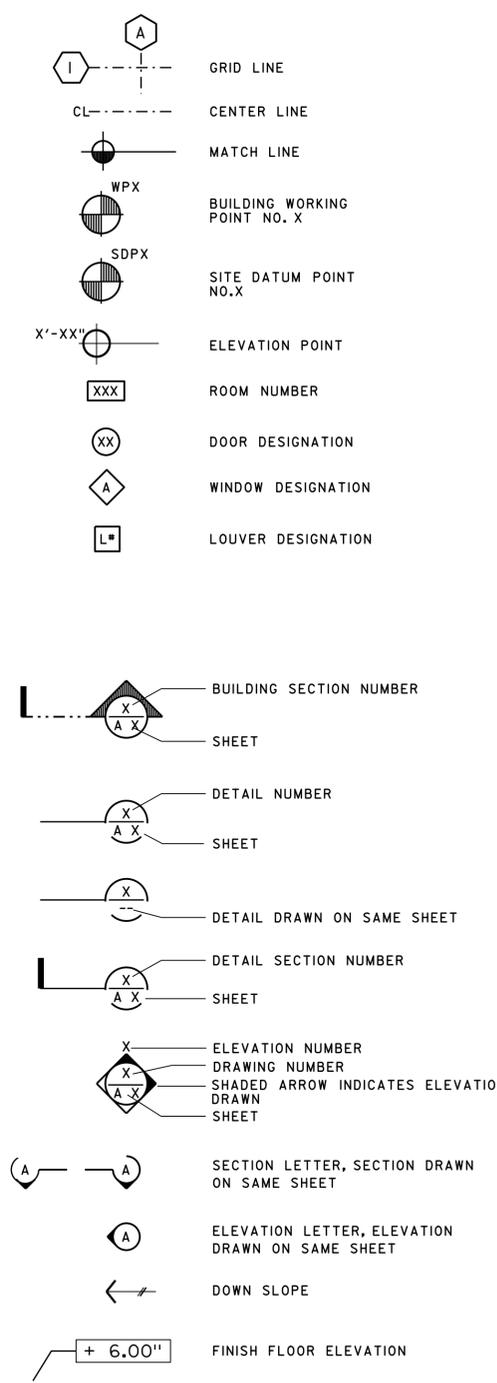
1 SITE PLAN
Scale: 1" = 250'

00-GP.dgn TAEWW Imperial Rev. 7/10 26-JAN-2016 17:14	<table border="1"> <tr> <td>DESIGN BY Hassan Akhavan</td> <td>CHECKED Don Alsey</td> </tr> <tr> <td>DETAILS BY Hassan Akhavan</td> <td>CHECKED Don Alsey</td> </tr> <tr> <td>QUANTITIES BY</td> <td>CHECKED</td> </tr> </table>	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	DETAILS BY Hassan Akhavan	CHECKED Don Alsey	QUANTITIES BY	CHECKED	<p>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</p>	<p>DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN</p>	<p>BRIDGE NO. 54M5759 POST MILE</p>	<p>ONYX SUMMIT SANDHOUSE</p> <p>SITE PLAN</p>	<p>SHEET OF GP</p>
DESIGN BY Hassan Akhavan	CHECKED Don Alsey											
DETAILS BY Hassan Akhavan	CHECKED Don Alsey											
QUANTITIES BY	CHECKED											
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 245 08140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF								

ARCHITECTURAL ABBREVIATIONS

AB ANCHOR BOLT	FD FLOOR DRAIN	OA OVERALL
AC AIR COMPRESSOR	FDN FOUNDATION	OC ON CENTER
ACT ACOUSTICAL TILE	FE FIRE EXTINGUISHER	OD OUTSIDE DIAMETER
ADJ ADJUSTABLE	FEC FIRE EXTINGUISHER CABINET	OH OPPOSITE HAND
ADDL ADDITIONAL	FHMS FLATHEAD METAL SCREW	OPNG OPENING
ALT ALTERNATE	FHWS FLATHEAD WOOD SCREW	PERF PERFORATED
ALUM ALUMINUM	FG FINISH GRADE	PL PROPERTY LINE
APL ASSUMED PROPERTY LINE	FIN FINISH	PLAM PLASTIC LAMINATE
ARCH ARCHITECTURAL	FLR FLOOR	PLAS PLASTER
ASPH ASPHALT	FLUOR FLUORESCENT	PLWD PLYWOOD
BD BOARD	FOC FACE OF CONCRETE	PMF PRESSED METAL FRAME
BITUM BITUMINOUS	FOCS FACE OF CONCRETE SLAB	POT(S) PATH OF TRAVEL
BLDG BUILDING	FOM FACE OF MASONRY	PT PRESERVATIVE TREATED
BLKG BLOCKING	FOS FACE OF STUD OR STEEL	PNT PAINT FINISH
BM BEAM	FRP FIBER REINFORCED PANEL	QT QUARRY TILE
BOT BOTTOM	FT FEET	QTY QUANTITY
BTWN BETWEEN	FTG FOOTING	R RADIUS
BU BUILT-UP	FWL FIRE WATER LINE	RD ROOF DRAIN
	GA GAUGE	REF REFERENCE
	GALV GALVANIZED	REINF REINFORCED
	GB GRAB BAR	REQD REQUIRED
C CHANNEL	GLM GLUE LAMINATED MEMBER	RFCEP REINFORCED FIBERGLASS CONCRETE PANEL
CAB CABINET	GR GRADE	RFEC RECESSED FIRE EXTINGUISHER CABINET
CB CATCH BASIN	GYPBD GYPSUM BOARD	RHWS ROUNDHEAD WOOD SCREW
CIP CAST-IN-PLACE	GFRC GLASS FIBER REINFORCED CONCRETE	RM ROOM
CJ CONTROL JOINT	HB HOSE BIB	RO ROUGH OPENING
CL CENTERLINE	HDR HEADER	R/W RIGHT OF WAY
CLG CEILING	HDRW HARDWARE	RSF RIGID STEEL FRAME
CLR CLEAR	HGT HEIGHT	
COL COLUMN	HM HOLLOW METAL	S SOUTH
COMP COMPOSITION	HMA HOT MIXED ASPHALT	SC SOLID CORE
CONC CONCRETE	HORIZ HORIZONTAL	SCHD SCHEDULE
CONT CONTINUOUS	HR HOUR	SF SQUARE FEET
CT CERAMIC TILE	HSB HIGH STRENGTH BOLT	SH METAL SHELVING
CTR COUNTER	HT HEIGHT	SHT SHEET
CTSK COUNTERSUNK	HVAC HEATING VENTILATING AND AIR CONDITIONING	SHWR SHOWER
		SIM SIMILAR
DPT DEPTH	HWY HIGHWAY	SM SQUARE METER
DBL DOUBLE		SND SANITARY NAPKIN DISPOSAL
DD DOWNDRAIN	ID INSIDE DIAMETER	SPS STRUCTURAL PLYWOOD SHEATING
DF DRINKING FOUNTAIN	ID IDENTIFICATION	SS STAINLESS STEEL
DIA DIAMETER	INT INTERIOR	STAG STAGGERED
DIAG DIAGONAL	INSUL INSULATION	STD STANDARD
DIM DIMENSION	JAN JANITOR	STL STEEL
DISP DISPENSER	JST JOIST	STRUC STRUCTURE
DN DOWN		SUSP SUSPENDED
DR DOOR	L ANGLE	SYM SYMMETRICAL
DS DOWNSPOUT	LAM LAMINATE	
DTL DETAIL	LAV LAVATORY	T&B TOP AND BOTTOM
DWG DRAWING	LBF POUND-FORCE	T&G TONGUE AND GROOVE
DWR DRAWER		TEMP TEMPORARY
		TK THICK
(E) EXISTING	MAT MATERIAL	TIF TRUCK INSPECTION FACILITY
E EAST	MAX MAXIMUM	TS TUBE STEEL
EA EACH	MB MACHINE BOLT	THLD THRESHOLD
EEWSU EMERGENCY EYE WASH SHOWER UNIT	MECH MECHANICAL	TYP TYPICAL
EF EXHAUST FAN	MET METAL	TOCS TOP OF CONCRETE SLAB
EHD ELECTRIC HAND DRYER	MFR MANUFACTURER	TOP TOP OF PLATE
EJ EXPANSION JOINT	MKBD MARKER BOARD	TOCC TOP OF CONCRETE CURB
EL ELEVATION HEIGHT	MIN MINIMUM	TOS TOP OF STEEL
ELECT ELECTRICAL	MISC MISCELLANEOUS	TOF TOP OF DOOR/WINDOW FRAME
ELEV ELEVATION	mm MILLIMETER	
ELVR ELEVATOR	MO MASONRY OPENING	UON UNLESS OTHERWISE NOTED
EMER EMERGENCY	MR MOISTURE RESISTANT	UR URINAL
EQ EQUAL	MT METAL THRESHOLD	VAR VARIES
EOS EDGE OF SLAB	MTD MOUNTED	VCT VINYL COMPOSITION TILE
EQUIP EQUIPMENT	MUL MULLION	VERT VERTICAL
ESCL ESCALATOR	MS MOP SINK	VIF VERIFY IN FIELD
EW C ELECTRIC WATER COOLER	N NORTH	VTR VENT THROUGH ROOF
EXP EXPANSION	NA NOT APPLICABLE	W WEST
EXT EXTERIOR	NIC NOT IN CONTRACT	W/ WITH
EW C ELECTRIC WATER COOLER	No. NUMBER	W/O WITHOUT
	NTS NOT TO SCALE	WC WATER CLOSET
		WD WOOD
		WDW WINDOW
		WDT WIDTH
		WR WATER RESISTANT

SYMBOLS



SHEET INDEX

ARCHITECTURAL	1 GP SITE PLAN
	2 A0-01 ABBREVIATIONS, SHEET INDEX, BUILDING DATA
	3 A0-3 ACCESSIBILITY STANDARD DETAILS
	4 A0-3.3 ACCESSIBILITY STANDARD DETAILS
	5 AI-1 FLOOR PLAN & ROOF PLAN
	6 AI-2 ELEVATIONS & SECTION
	7 AI-3 DETAILS
	8 AI-4 DETAILS
	9 AI-5 DETAILS & FINISH SCHEDULE
	10 AI-6 ISOMETRIC

STRUCTURAL	1 ST-1 LEGEND
	2 ST-2 CONCRETE STANDARD
	3 STI-0 DESIGN CRITERIA AND DETAIL NOTES
	4 STI-1 FOUNDATION PLAN
	5 STI-2 TRANSVERSE BUILDING SECTION & DETAILS
	6 STI-3 LONGITUDINAL BUILDING SECTION
	7 STI-4 FOUNDATION & PEDESTAL DETAILS
	8 STI-5 MISCELLANEOUS DETAILS

ELECTRICAL	1 EE0-0 LEGEND
	2 EE0-1 NOTES AND ABBREVIATIONS
	3 EEI-1 POWER AND LIGHTING PLAN
	4 EEI-2 PANEL SCHEDULE AND DIAGRAM

STATE OF CALIFORNIA - NATIONAL RESOURCE AGENCY
 DEPARTMENT OF FORESTRY AND FIRE PROTECTION
 OFFICE OF THE STATE FIRE MARSHAL
 Fire and Life Safety Division
 1500 Capitol Mall, Sacramento, CA 95833
 (916) 227-2300
 www.fire.ca.gov

LOCAL FIRE AUTHORITY - ACCESS APPROVAL

Project: Onyx Summit EA-0814000160
 Address: _____
 CSFM File Number: (City & Parcel) DGS Project #: 0814000160 (City & Parcel)

Pursuant to Title 19, California Code of Regulations, Article 3, Section 3.05, Fire Department Access and Egress, it is necessary to provide the California State Fire Marshal with written certification from the local fire authority that the above section is being met to their satisfaction.

Please return this form with all sections filled in completely. Without this form, California State Fire Marshal approval may be delayed. If you have any questions, please contact the California State Fire Marshal Plan Review Unit at (916) 445-8650.

The local fire authority shall consider the following items:

Approved	Yes	No
Fire Department Access	OR	
Fire Department Connection	N/A	
Fire Hydrant	N/A	
Fire Alarm Annunciator	N/A	
Fire Alarm Control Panel	N/A	
Smoke Box	N/A	
Emergency Responder Radio Coverage	Yes	No

Local Fire Authority: San Bernardino County
 Address: 3834 Arrowhead
 City/State/Zip: San Bernardino, CA 92415

Approval issued by: J. THORNTON
 Rank/Title: FIRE PREVENTION SPECIALIST
 Phone Number: 909-387-3000
 Signature: _____ Date: 8-04-2016

DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		9	29

Hassan Akhavan
 LICENSED ARCHITECT
 No. C-20451
 Exp. 04-30-17
 STATE OF CALIFORNIA

I-25-16
 PLANS APPROVAL DATE

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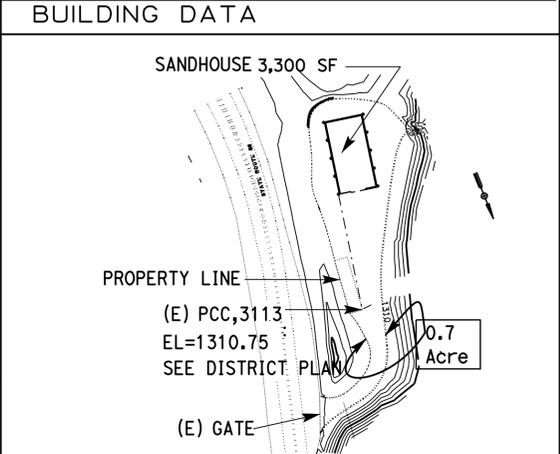
ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA

PROJECT ID
0814000160

Reviewed by: Y. A. WANG
 Date: June 24, 2015

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: Andrew McSorley
 Approval date: 10/27/2015
 CSFM # 01-36-11-0077



BUILDING DATA NO SCALE

BUILDING NAME	ACTUAL BLDG AREA	ALLOWABLE AREA OF PROJECT	AREA INCREASE	SPRINKLER CONSTRUCTION TYPE	OCCUPANCY TYPE	NUMBER OF STORIES	HEIGHT	SEPARATED OR NON-SEPARATED USE AREAS	INCREASES	HIGH FIRE HAZARD ZONE
SAND HOUSE	3,300 SF	9,000 SF	0.7 Acre	N/A	V-B	S-2	24 FT	NA	NA	NO

YEAR BUILDING CONSTRUCTED	NEW
FIRE SPRINKLERED	NO
FIRE ALARM	NO
FIRE HYDRANTS	NO
SMOKE CONTROL SYSTEM	YES
OTHER FIRE PROTECTION SYSTEMS IF ANY	FIRE EXTINGUISHERS
EMERGENCY RESPONDER RADIO COVERAGE	NO

PROJECT SCOPE

CONSTRUCTION OF 3300 SQUARE FEET SANDHOUSE

DESIGN CRITERIA

The building work on this project has been designed to conform to the 2010 Americans with Disabilities Act Standards and the 2013 Title 24 California Code of Regulations:

- Title 19, CCR, Public Safety, SFM Regulations
- 2013 CA Administrative Code Title 24, Pt 1
- 2013 CA Building Code (CBC) Title 24, Pt 2
- 2013 CA Electrical Code (CEC) Title 24, Pt 3
- 2013 CA Mechanical Code (CMC) Title 24, Pt 4
- 2013 CA Plumbing Code (CPC) Title 24, Pt 5
- 2013 CA Energy Code CCR Title 24, Pt 6
- 2013 CA Fire Code (CFC) CCR Title 24, Pt 9
- 2013 CA Green Building Standards Title 24, Pt 11
- 2013 CA Referenced Standards Title 24, Pt 12

- VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
- NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL MEASUREMENTS OR FIELD CONDITIONS.

DESIGN BY Hassan Akhavan CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE	SHEET A0-01
			POST MILE		
			ABBREVIATION, SHEET INDEX, BUILDING DATA		
DETAILS BY Hassan Akhavan CHECKED Don Alsey	UNIT PROJECT NUMBER & PHASE 245 08140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				

q0_01.dgn
 TAEMWW ImperIal Rev. 7/10 26-JAN-2016 17:14

DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		10	29


 LICENSED ARCHITECT
 DATE 09-05-14
 I-25-16
 PLANS APPROVAL DATE
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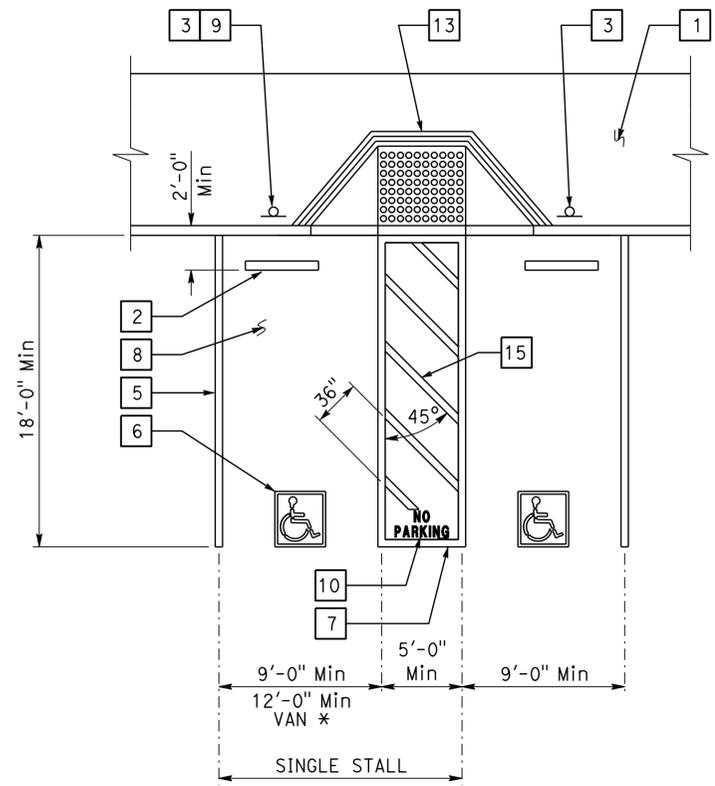


ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
0814000160
 Reviewed by: Y. A. WANG
 Date: June 24, 2015

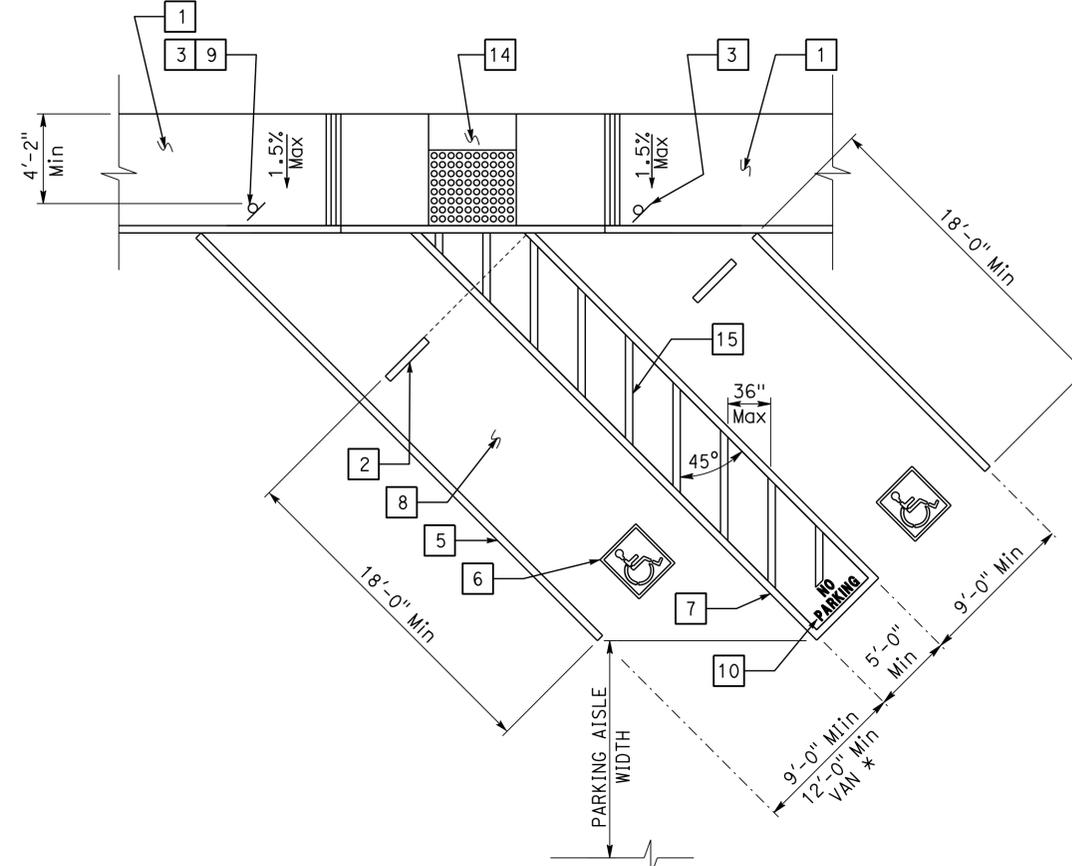
CALIFORNIA STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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 Reviewed by: Andrew McSorley
 Approval date: 10/27/2015
 CSFM #01-36-11-0077

KEYED NOTE LEGEND FOR DETAILS

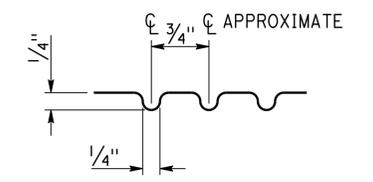
- Concrete walkway (where occurs). See plans for width, layout (may vary), finish, joints and elevations.
- Parking bumper (away from access aisle). See Specifications.
- Accessible parking space signage. See Detail 1 on sheet A0-3.2.
- 1' wide grooved border on level surface Typ at ramp perimeter. See Detail 3 on this sheet.
- 4" wide white parking stall designation stripe. See site plan(s) for additional stall striping. See specifications for painting.
- Accessible parking surface identification painted on pavement. See Detail 6 on sheet A0-3.2.
- 4" wide blue border designating non-parking access aisle to curb ramp.
- Maximum slope on parking stall and access aisle to be 1.5%.
- Van accessible signage. See Detail 2 on sheet A0-3.2. Access aisle must be on passenger side only.
- "NO PARKING" in Min 12" high white letters to be placed within access aisle to curb ramp. See Standard Plan RSP A90B.
- Level landing -1.5% Max slope W/36" deep detectable warning surface adjoining access aisle or vehicular way. See Detail 6 on this sheet.
- Detectable warning surface to extend full width and 36" deep. See Detail 6 on this sheet. The edge of detectable warning surface nearest the street must be between 6" and 8" from the gutter flow line.
- Curb ramp. See Detail 4 on this sheet. Also see plans for width and layout (may vary).
- Curb ramp. See Detail 5 on this sheet. Also see plans for width and layout (may vary).
- 4" wide hatched lines at 36" OC. Color to contrast with aisle surface, preferably blue or white.



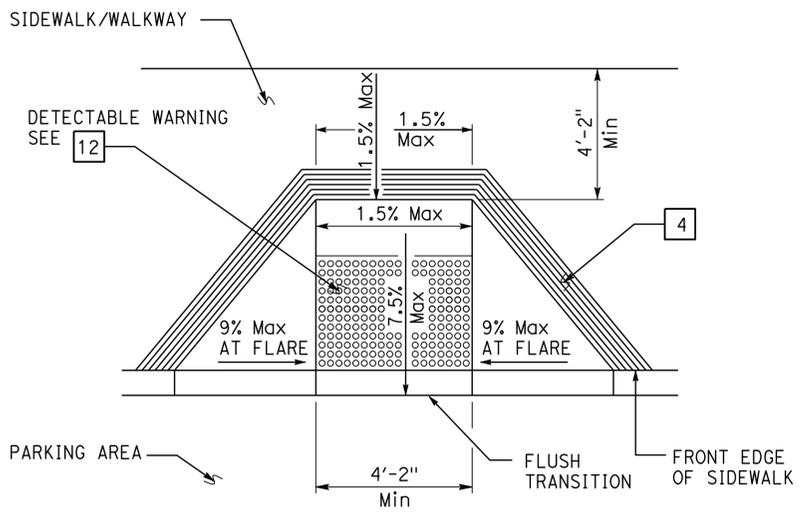
1 ACCESSIBLE PARKING STALL
 * 9'-0" Min van parking allowed w/ 8'-0" Min access aisle.



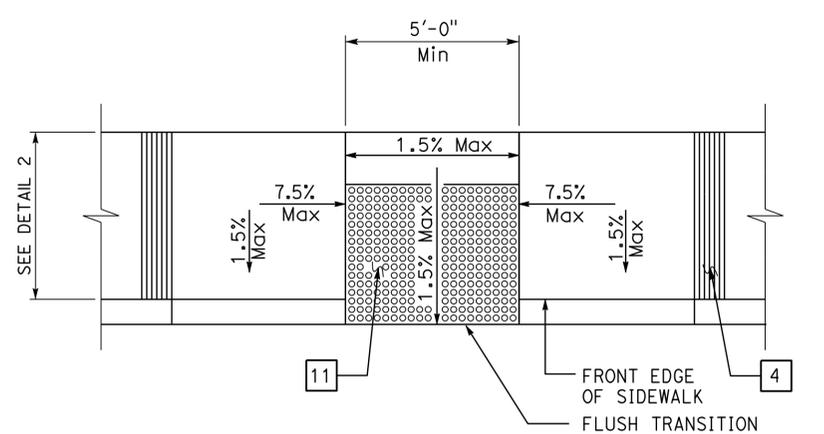
2 DIAGONAL ACCESSIBLE PARKING STALL
 See plan for any variation of diagonal parking. Angle of parking stalls are indicated on plans or matching any existing angle.



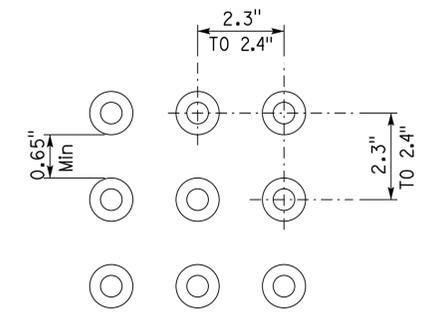
3 GROOVE DETAIL



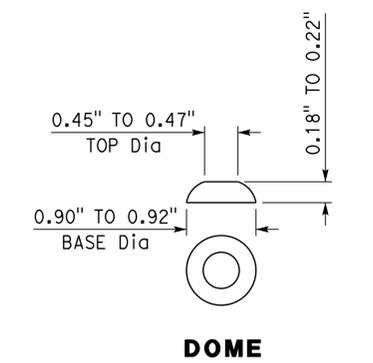
4 PERPENDICULAR CURB RAMP



5 PARALLEL CURB RAMP



6 DETECTABLE WARNING SURFACE - TRUNCATED DOMES



7 DOME

DETAILS

No scale unless otherwise noted

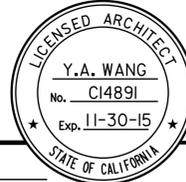
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

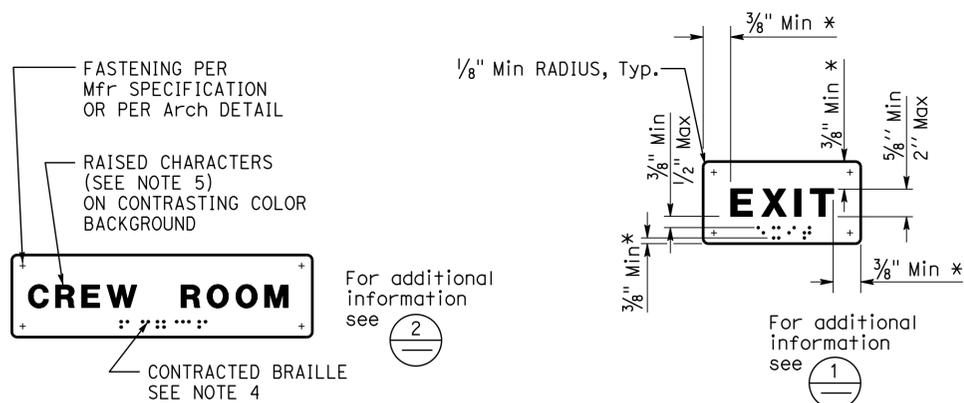
STANDARD DRAWING			
FILE NO. _____	DESIGN BY D. Aalsey	CHECKED Y. A. Wang	APPROVED <i>RE Brown</i>
DRAWING DATE 09-14	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR
SUBMITTED BY Y.A. Wang			

STATE OF CALIFORNIA			
DEPARTMENT OF TRANSPORTATION			

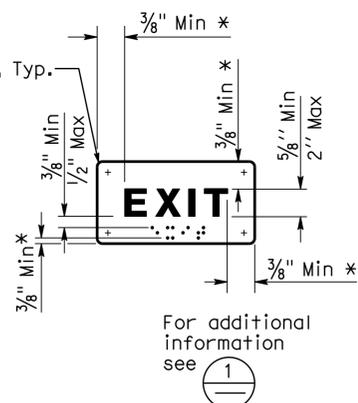
DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 54M5759
ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE

ONYX SUMMIT SANDHOUSE		SHEET A0-3.1
ACCESSIBILITY STANDARD DETAIL		

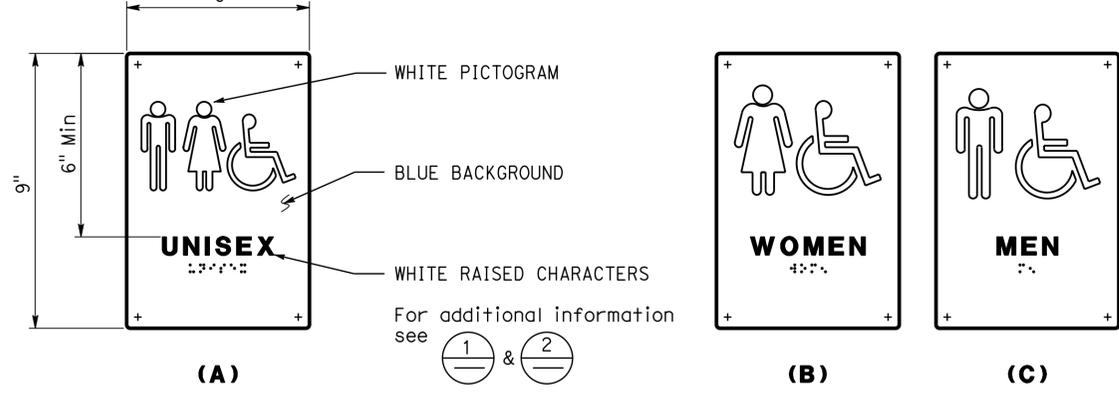
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		II	29
 LICENSED ARCHITECT			09-05-14	 Y.A. WANG No. C14891 Exp. 11-30-15 STATE OF CALIFORNIA	
PLANS APPROVAL DATE					
I-25-16					
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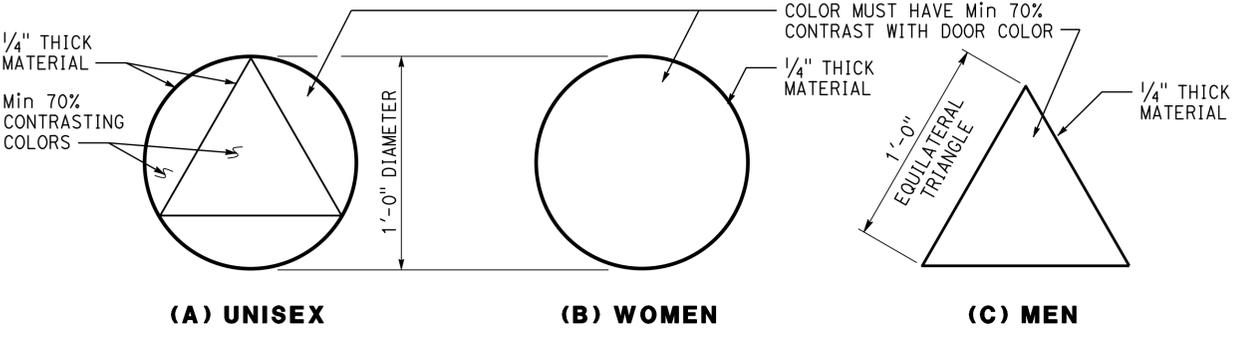
1 ROOM IDENTIFICATION SIGN
 Install per Detail 5.
 Text varies.
 See plans, Ext elevations, or door schedule for locations and text.



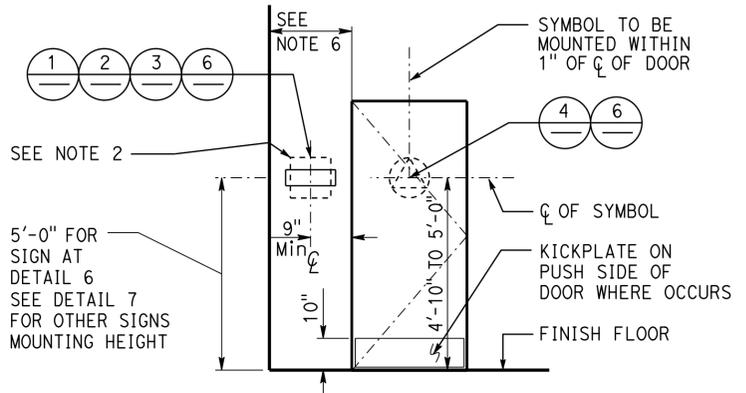
2 INTERIOR EXIT SIGN
 Install per Detail 5.
 Text may vary.
 See plans, or door schedule for locations and text.
 * From characters / Braille to any raised border or elements



3 RESTROOM/SHOWER ROOM SIGNS
 Install per Detail 5.
 See Detail 7 for sign mounting height.



4 RESTROOM/SHOWER ROOM GEOMETRIC SYMBOLS AT DOOR
 Install per Detail 5.
 Any pictogram and raised characters are not required and not recommended.

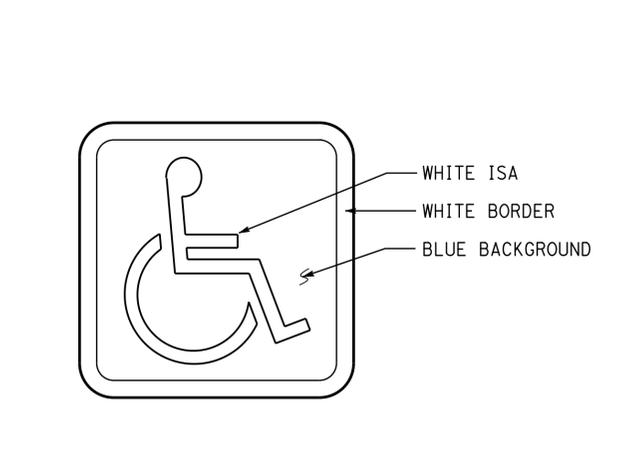


5 SIGN/SYMBOL LOCATIONS
 Refer to signage notes for additional information.

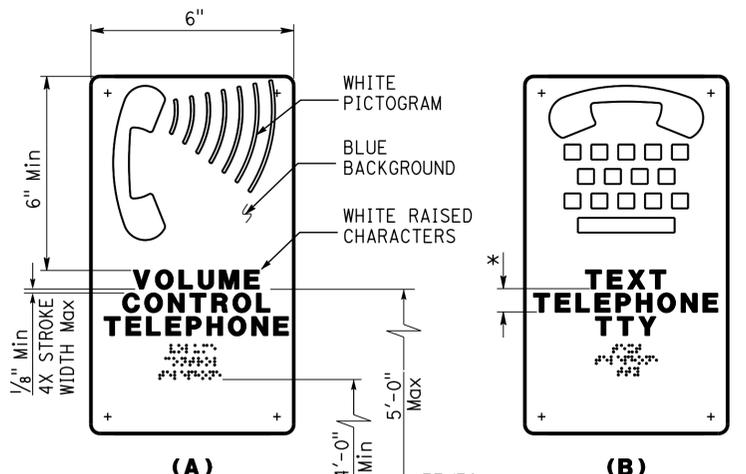
- SIGNAGE NOTES:**
1. Locate room identification signs, exit signs, and restroom signs on wall adjacent to door on latch side. If wall space is not available on latch side, locate on nearest adjacent wall. Locate sign on inactive leaf at double doors, or to the right of right hand door at double doors with two active leaves.
 2. Refer to specifications for sign material and other color selection. Except Detail 6, sign colors may vary from details.
 3. See door schedule for text and sign location, UON.
 4. Braille must be contracted (Grade 2) and compliant with 2013 CBC Section 11B-703.3.
 5. Raised characters must be uppercase sans serif raised 1/2" Min. Fonts must be selected where width of letter "O" is 60% Min and 110% Max of height of letter "I". Stroke thickness of letter "I" must be 15% Max of height of the character.
 6. Provide 18"x18" Min clear floor space in front of and centered with raised characters.
 7. Sign color must have a minimum of 70% contrast to door or wall color. Text and pictogram must have a minimum of 70% contrast to sign color.
 8. Raised character height is measured based on height of uppercase letter "I".

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID: 08140000160
 Reviewed by: Y.A. WANG
 Date: June 24, 2015

CALIFORNIA STATE FIRE MARSHAL
 APPROVED FIRE AND PANIC ONLY
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 Reviewed by: Andrew McSorley
 Approval date: 10/27/2015
 CSFM # 01-36-11-0077



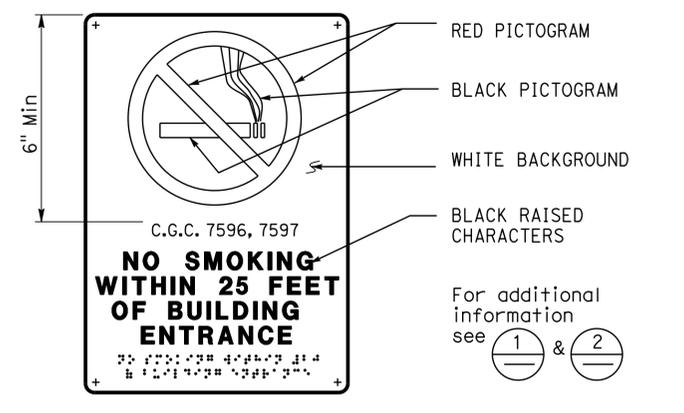
6 INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN
 Install per Detail 5.
 See plans, elevations, or schedule for sign locations.
 Decal may be used.



7 TELEPHONE SIGNS
 Text may vary.
 See plans or exterior elevations for sign locations and mounting heights.
 * 135% min and 170% max of character ht.



8 RESTROOM ACCOMPANY SIGN
 See plans or elevations for locations.
 See Detail 7 for sign mounting heights.



9 NO SMOKING SIGN
 See plans or ext elevations for locations.
 See Detail 7 for sign mounting heights.

DETAILS
 No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 54M5759		SHEET	
FILE NO. 09-14	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED R.E. Travis	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE		ON YX SUMMIT SANDHOUSE	
DRAWING DATE 09-14	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR							ACCESSIBILITY STANDARD DETAILS	
SUBMITTED BY Y.A. Wang										A0-3.3	
a0_03c_i.dgn				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3600 08140001601		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	
26-JAN-2016 17:14				0 1 2 3				REVISION DATES (PRELIMINARY STAGE ONLY)		- 07	

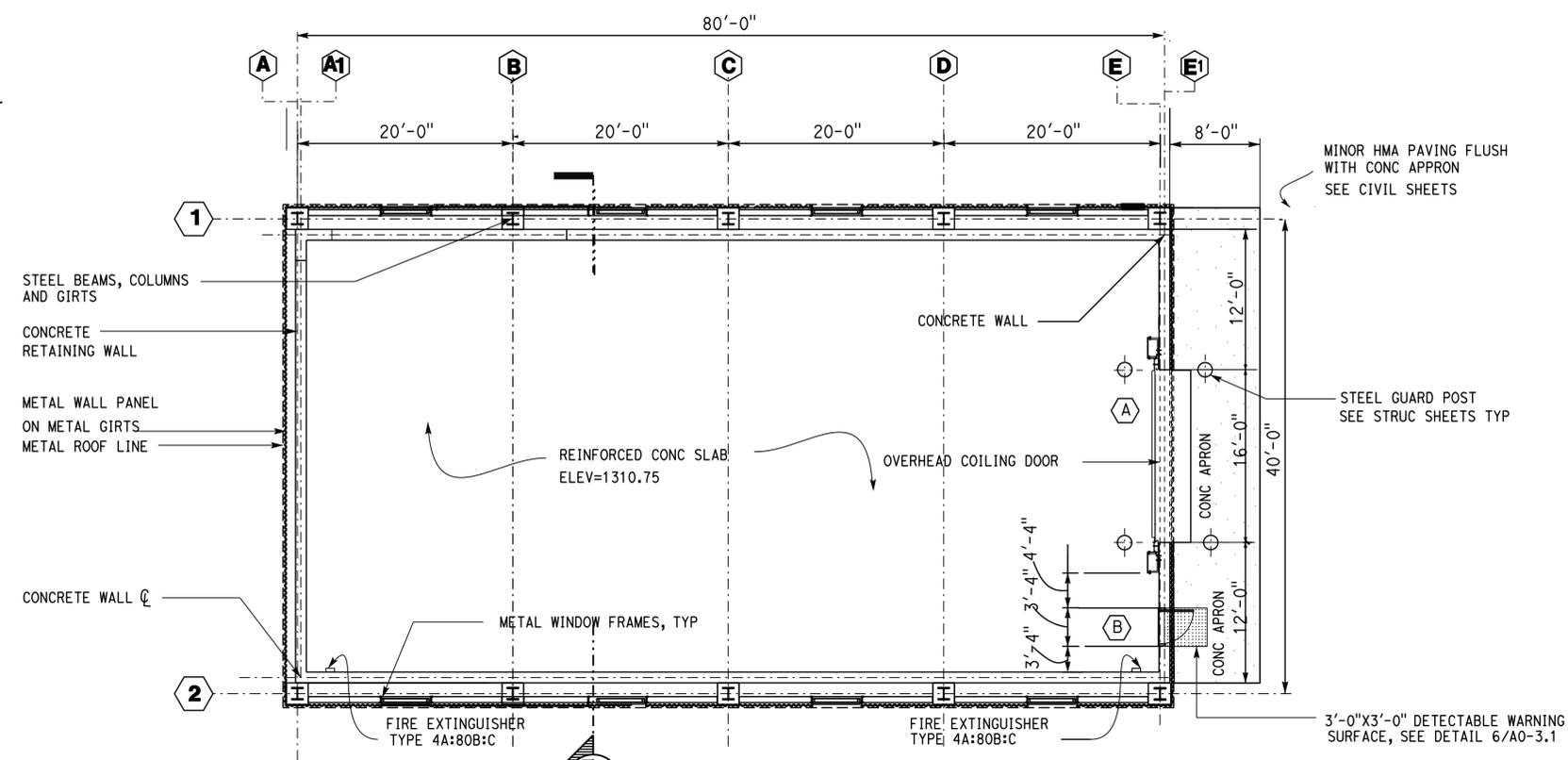
DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		12	29

Hassan Akhavan
 LICENSED ARCHITECT
 1-21-16
 LICENSED ARCHITECT
 No. C-20451
 Exp. 04-30-17
 STATE OF CALIFORNIA

I-25-16
 PLANS APPROVAL DATE
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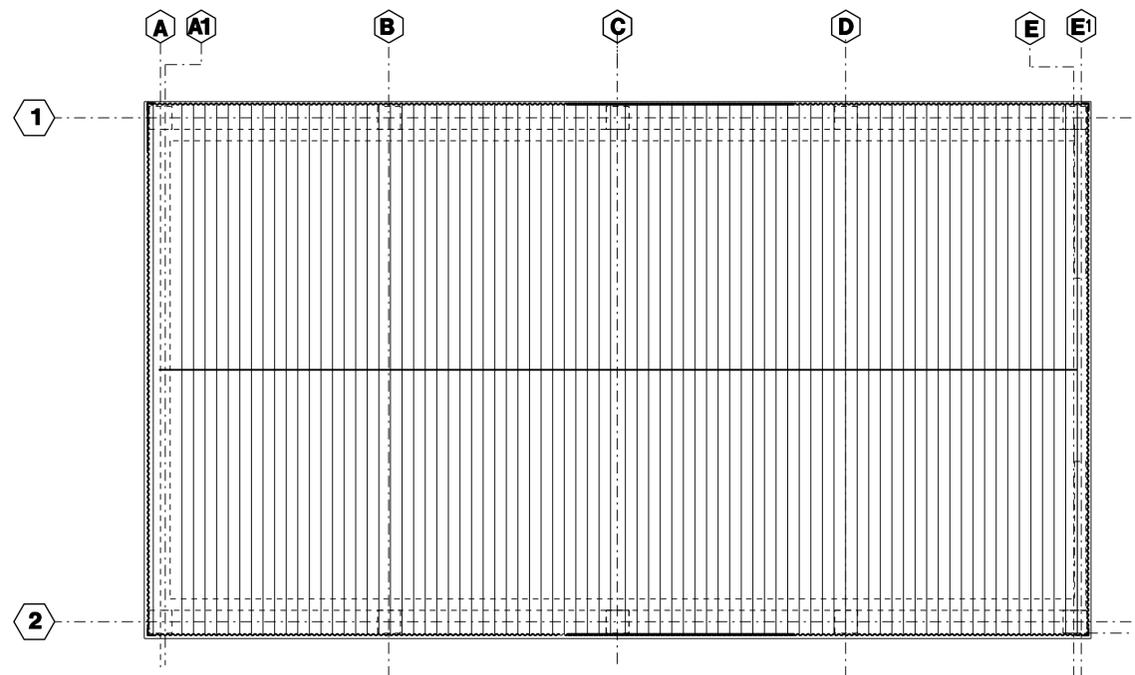
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 DOT / DES / OTA
 PROJECT ID
0814000160
 Reviewed by: Y. A. WANG
 Date: June 24, 2015

CALIFORNIA STATE FIRE MARSHAL
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 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: Andrew McSorley
 Approval date: 10/27/2015
 CSFM # 01-36-11-0077



FLOOR PLAN

1/8"=1'-0"



ROOF PLAN

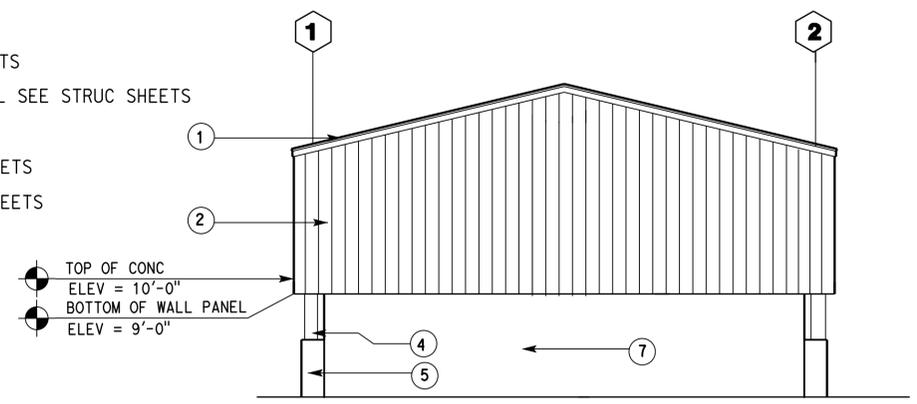
1/8"=1'-0"

A1-1.dgn TAEMWW Imperial Rev. 7/10	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE FLOOR PLAN & ROOF PLAN	SHEET A1-1
	DETAILS BY Hassan Akhavan	CHECKED Don Alsey			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
26-JAN-2016 17:14	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 245 08140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	- 07	A1-1.dgn

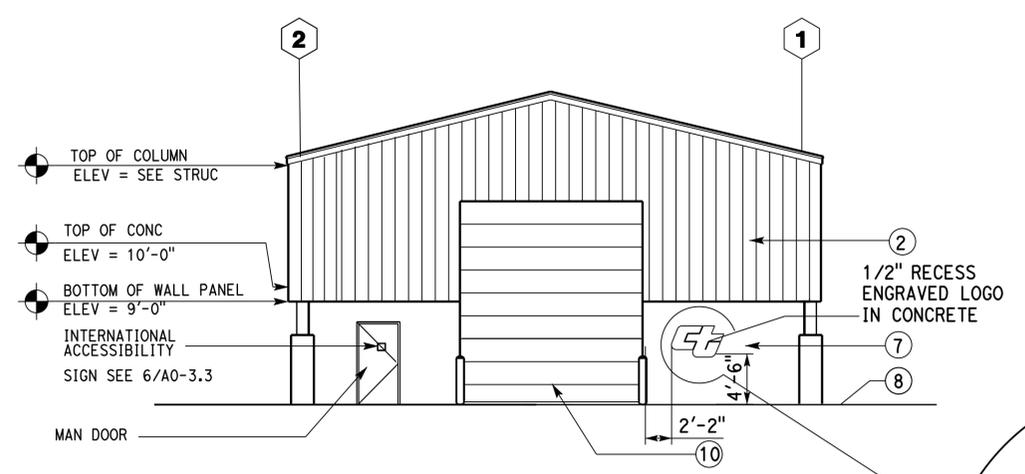
DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		13	29
Hassan Akhavan LICENSED ARCHITECT			I-21-16 1-25-16 PLANS APPROVAL DATE		
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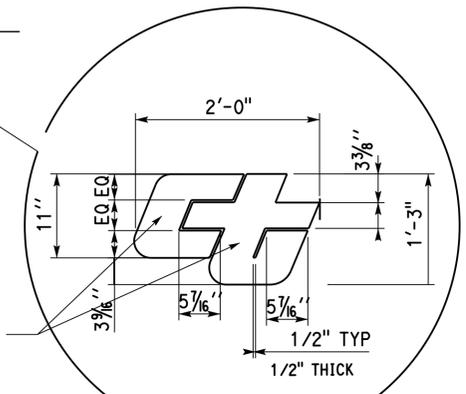
- 1 METAL ROOF PANEL TYP
- 2 METAL WALL PANEL TYP
- 3 WINDOW
- 4 STEEL COLUMN SEE STRUC SHEETS
- 5 REINFORCED CONCRETE PEDESTAL SEE STRUC SHEETS
- 6 OMIT
- 7 CONCRETE WALL SEE STRUC SHEETS
- 8 CONCRETE APRON SEE STRUC SHEETS
- 9 STEEL GUARD POST
- 10 OVERHEAD COLING DOOR



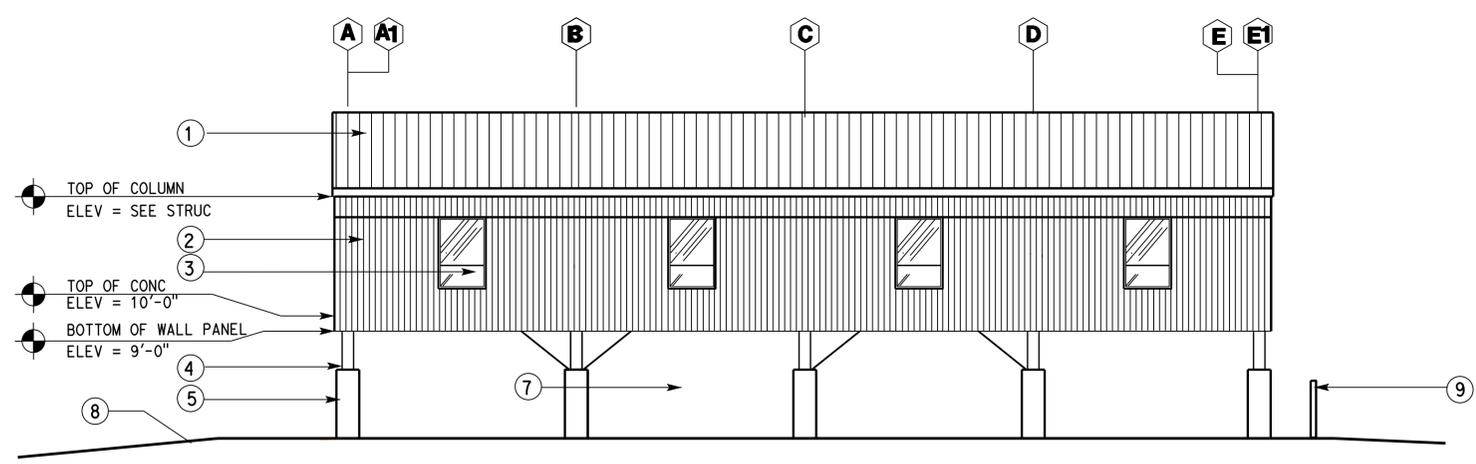
SOUTH ELEVATION
SCALE 1/8" = 1'-0"



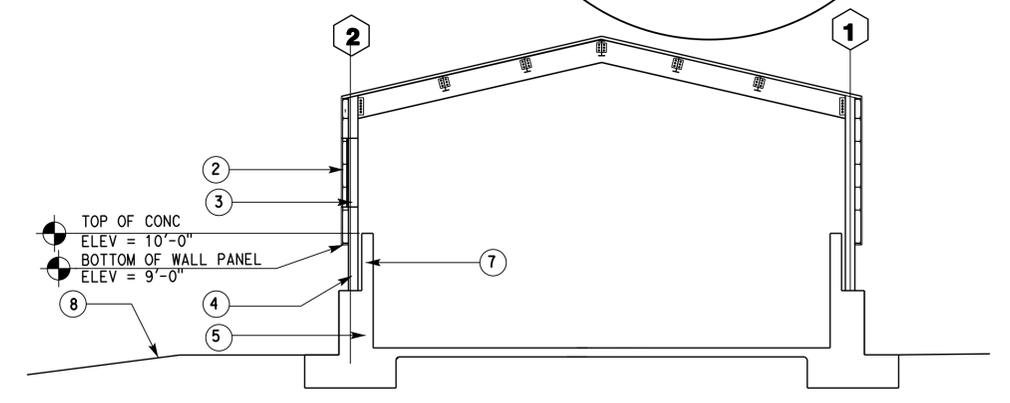
NORTH ELEVATION
SCALE 1/8" = 1'-0"



NOTE:
COLOR:
MATCH WITH CALTRANS STANDARD COLOR



EAST ELEVATION
WEST ELEVATION SIMILAR
SCALE 1/8" = 1'-0"



SECTION A-A
SCALE 1/8" = 1'-0"

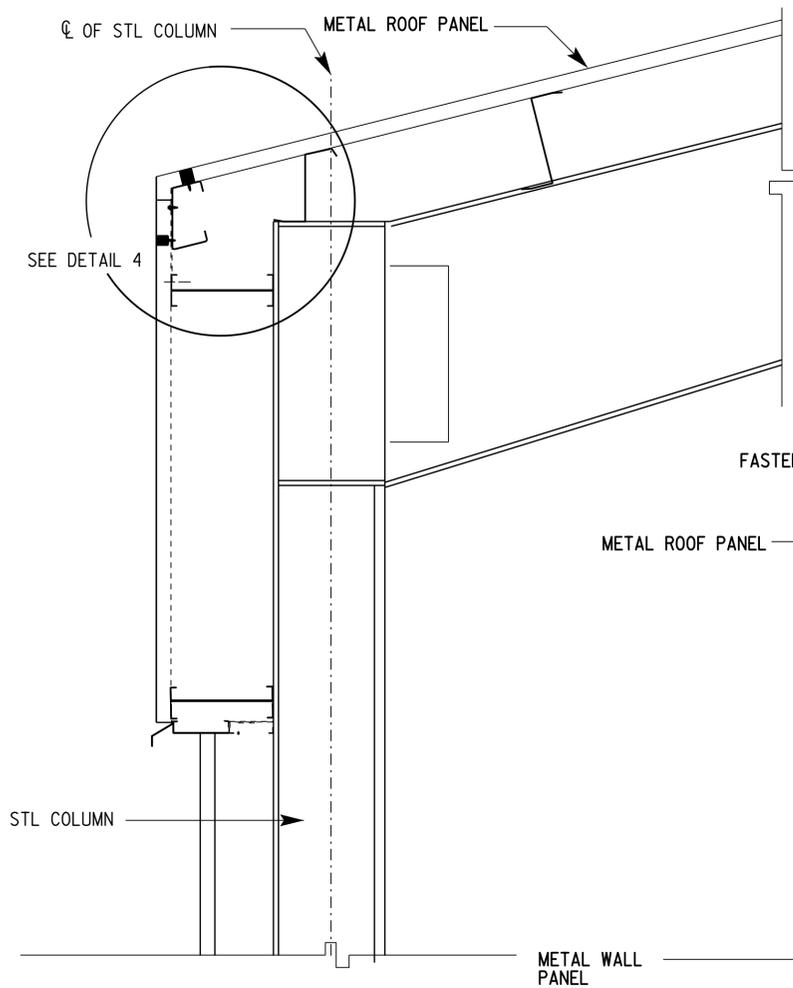
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	DETAILS BY Hassan Akhavan	CHECKED Don Alsey		UNIT PROJECT NUMBER & PHASE 245 08140001601	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY) - 07
CSBMMF FILE ENQ.		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		26-JAN-2016 17:14	

DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		14	29

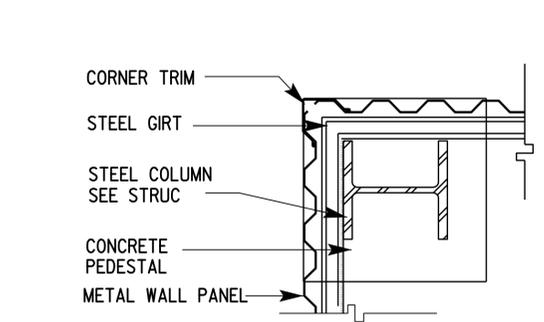
1-21-16
 Hassan Akhavan
 LICENSED ARCHITECT

LICENSED ARCHITECT
 Hassan Akhavan
 No. C-20451
 Exp. 04-30-17
 STATE OF CALIFORNIA

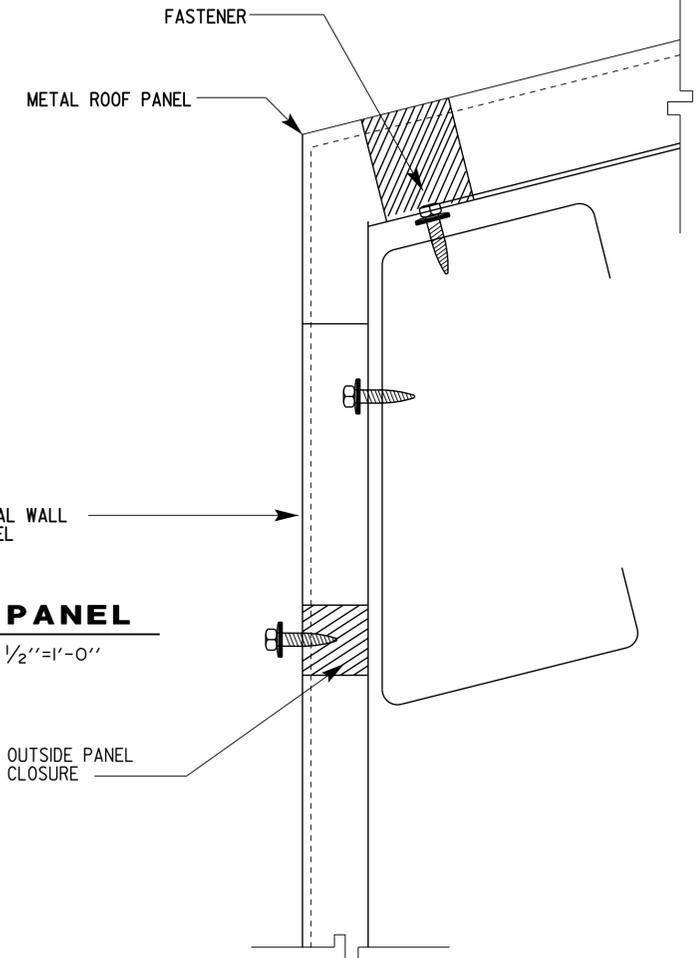
1-25-16
 PLANS APPROVAL DATE
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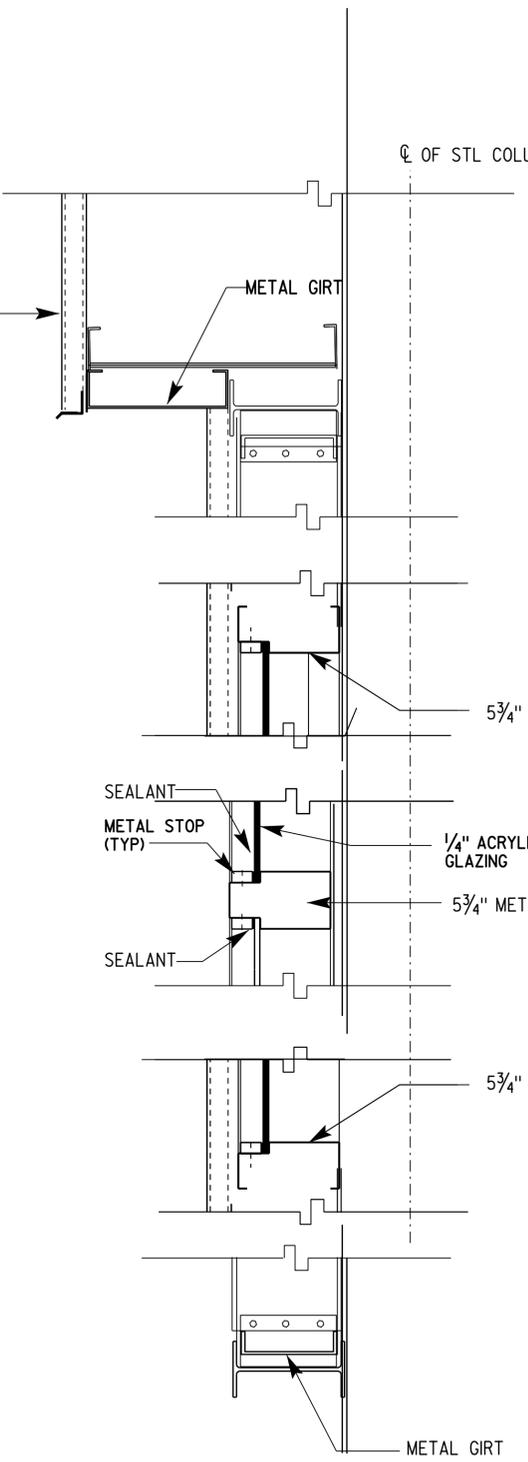
1 METAL ROOF @ METAL PANEL
 SCALE 1/2"=1'-0"



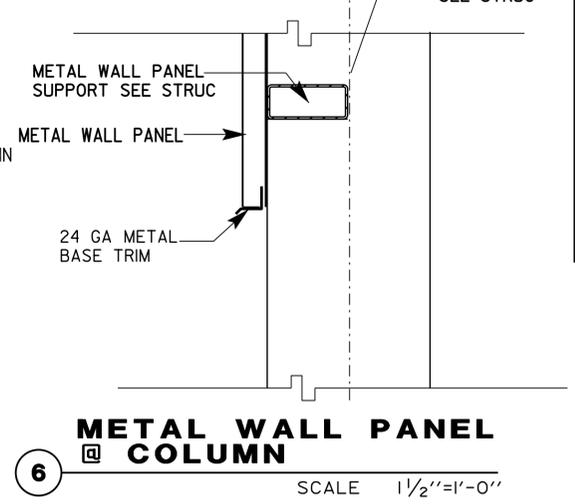
3 METAL WALL PANEL @ CORNER EVE TRIM DETAIL
 NO SCALE



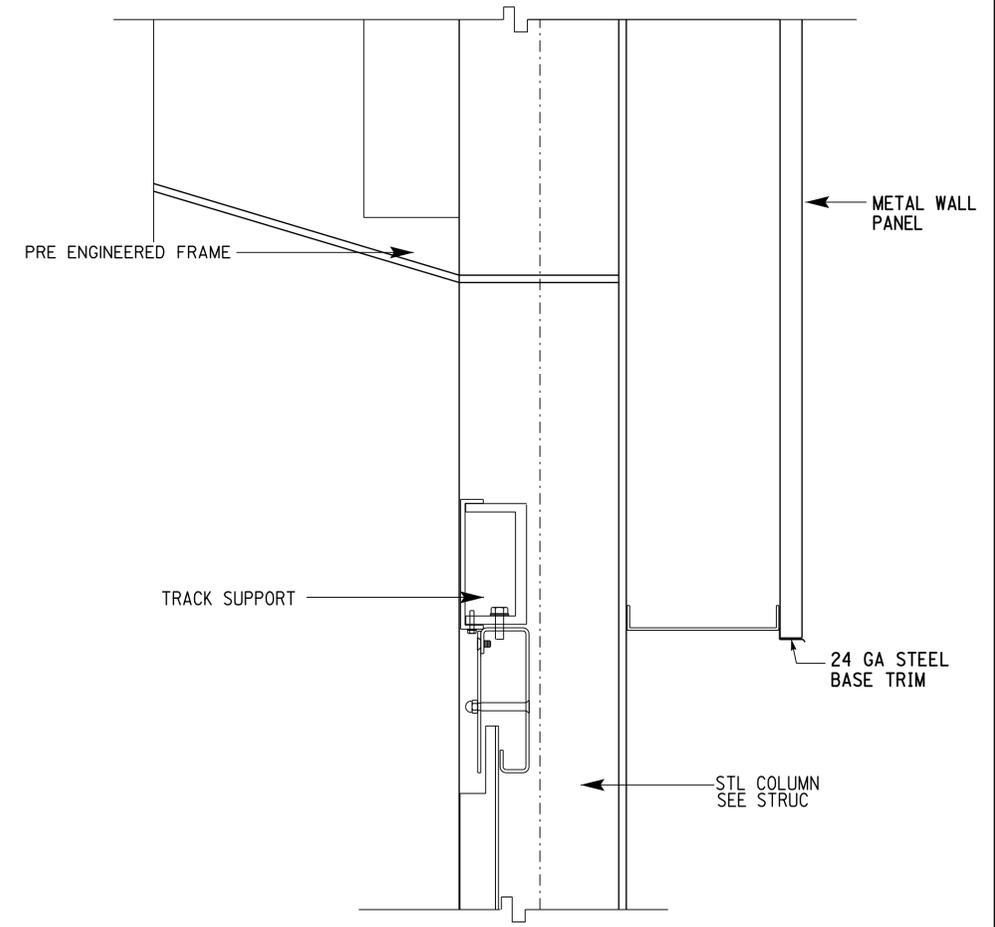
4 EVE TRIM DETAIL
 NO SCALE



2 WINDOW & METAL WALL PANEL
 SCALE 1/2"=1'-0"



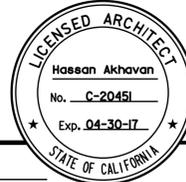
6 METAL WALL PANEL @ COLUMN
 SCALE 1/2"=1'-0"

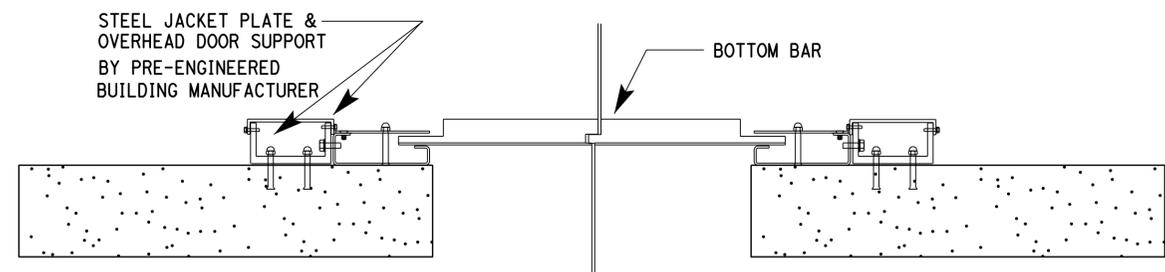


5 OVERHEAD COILING DOOR
 SCALE 1/2"=1'-0"

A1-3.dgn TAEMWW Imperial Rev. 7/10	26-JAN-2016	17:14	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE	DETAILS	SHEET 1 OF 3
			DETAILS BY Hassan Akhavan	CHECKED Don Alsey		PROJECT NUMBER & PHASE 245 08140001601	POST MILE			SHEET 1 OF 3
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			QUANTITIES BY	CHECKED		UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

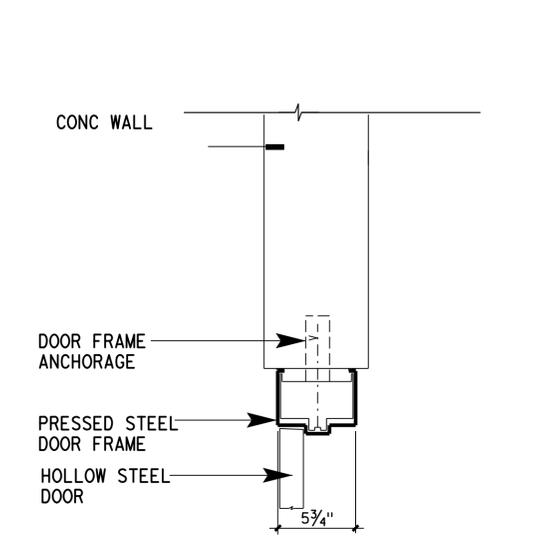
26-JAN-2016 17:14

DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		15	29
Hassan Akhavan LICENSED ARCHITECT			1-21-16		
1-25-16 PLANS APPROVAL DATE					
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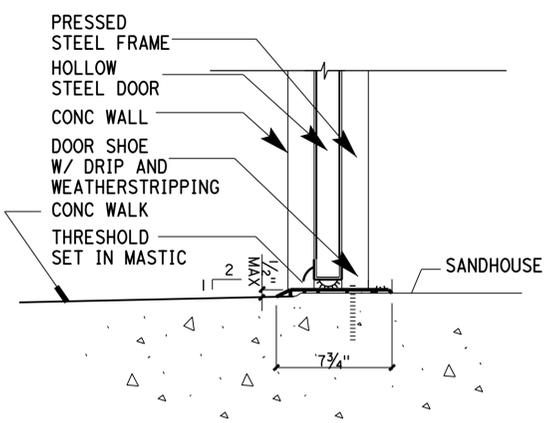


4 OVERHEAD COILING DOOR JAMB
SCALE 2"=1'-0"

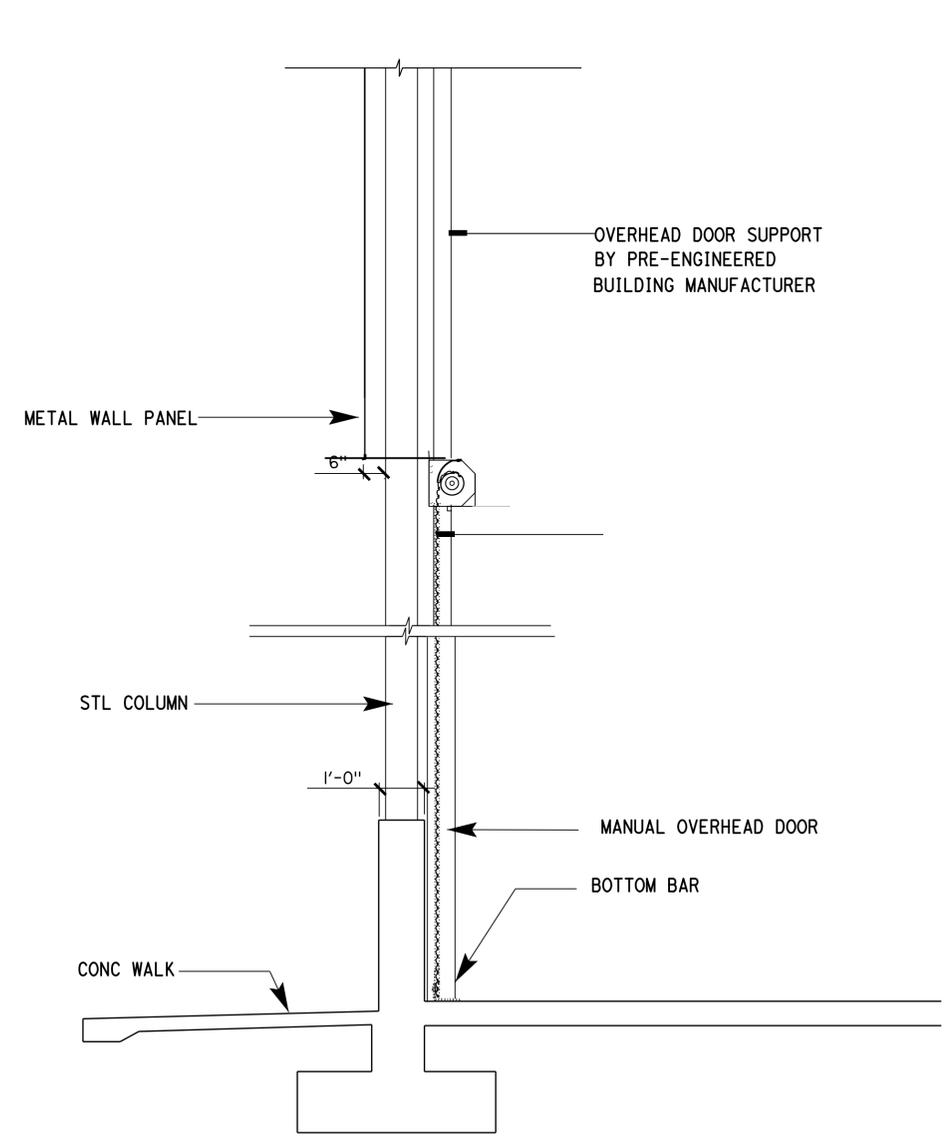
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA	CALIFORNIA STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY
PROJECT ID 0814000160	Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y. A. WANG</i> Date: June 24, 2015	Reviewed by: <i>Andrew McSorley</i> Approval date: 10/27/2015 CSFM # 01-36-11-0077



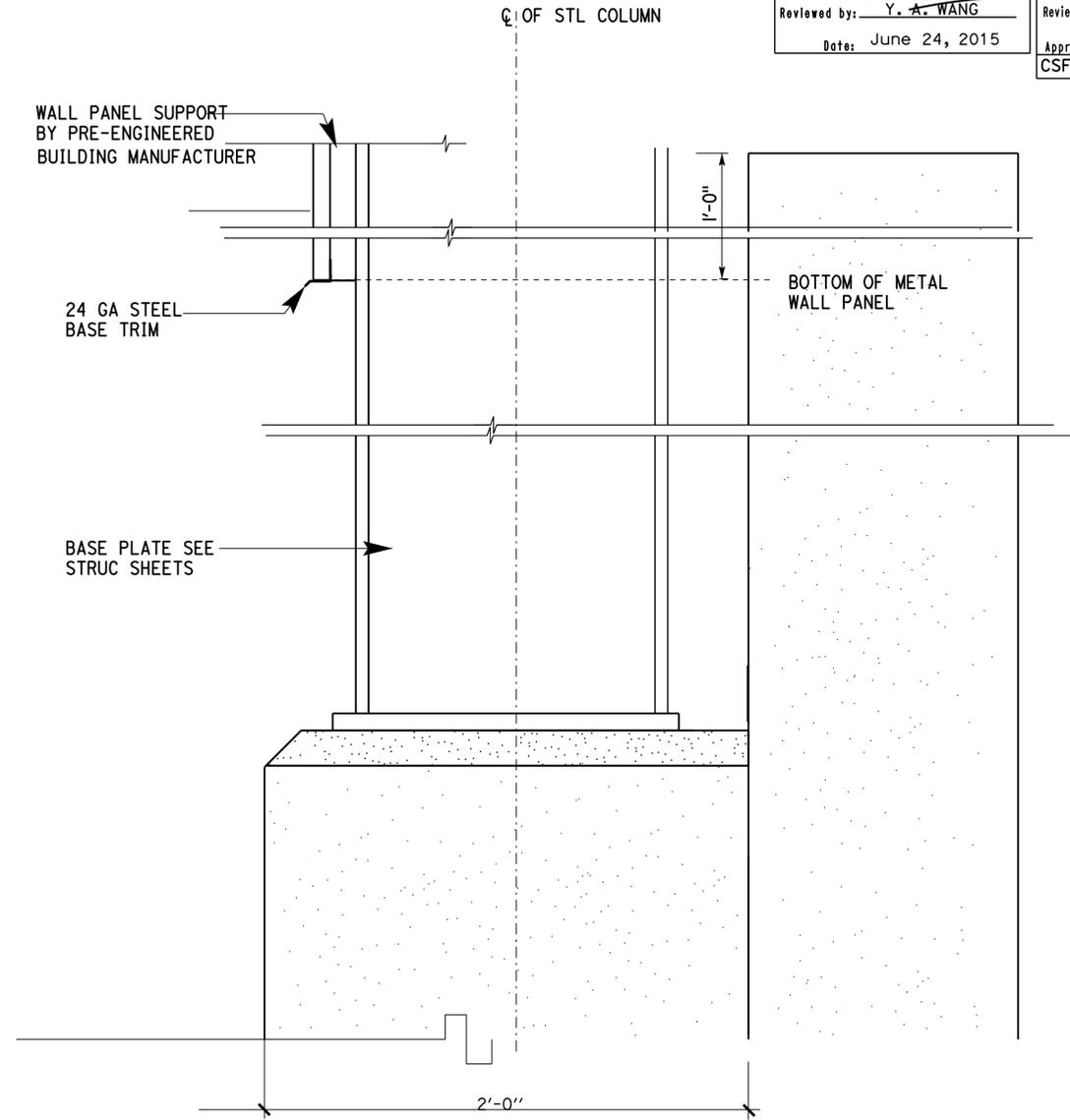
DOOR HEAD JAMB SIM



1 MAN DOOR
SCALE 2"=1'-0"



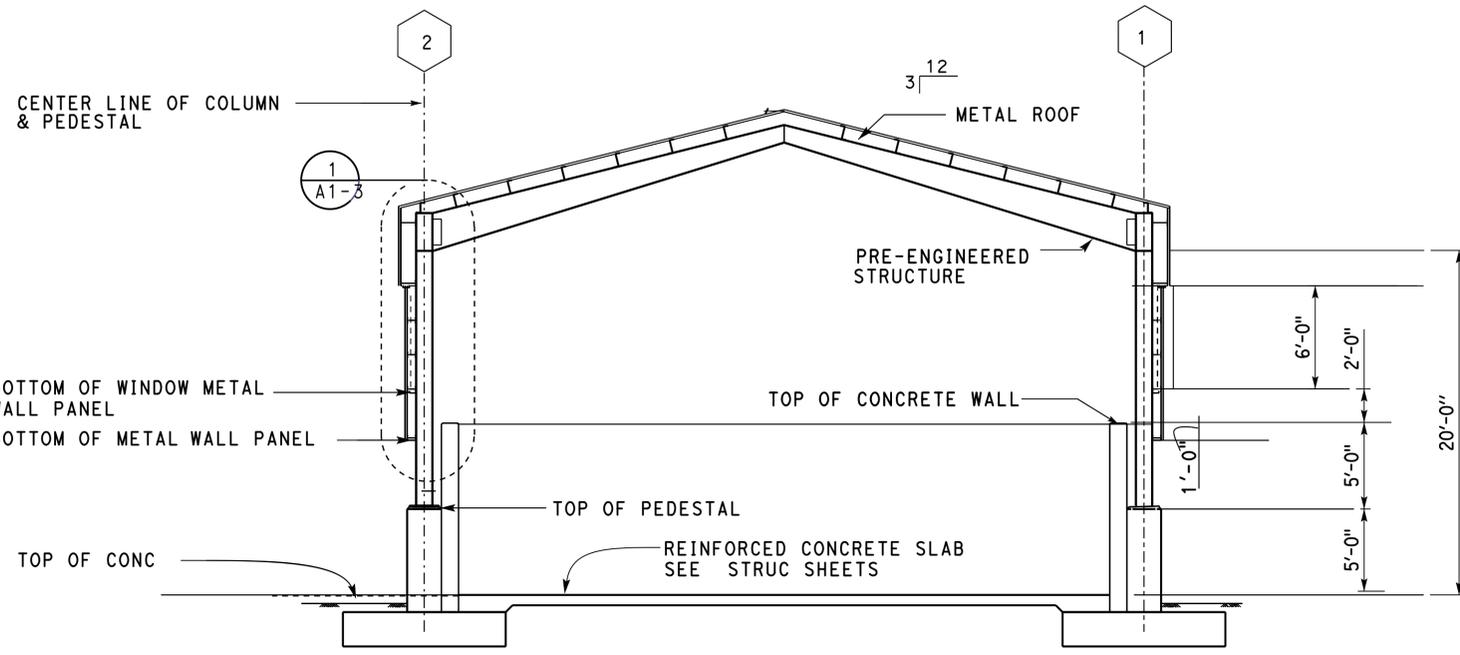
2 OVERHEAD COILING DOOR
SCALE 1/2"=1'-0"



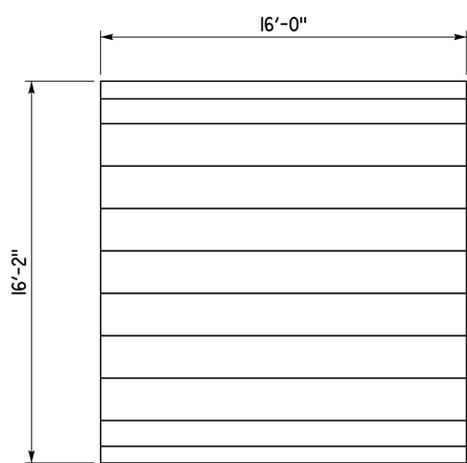
3 METAL WALL PANEL @ PEDESTAL
SCALE 1 1/2"=1'-0"

A1-4.dgn TAEMWW Imperial Rev. 7/10 26-JAN-2016 17:14	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE DETAILS	SHEET A1-4
	DETAILS BY Hassan Akhavan	CHECKED Don Alsey		UNIT PROJECT NUMBER & PHASE 245 08140001601	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3			DISREGARD PRINTS BEARING EARLIER REVISION DATES →	

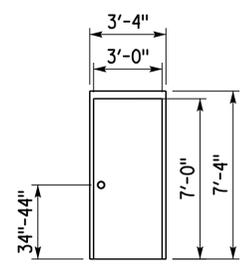
26-JAN-2016 17:14



SECTION A-A
SCALE : 3/16" = 1'-0"



TYPE 1
OVERHEAD COILING DOOR

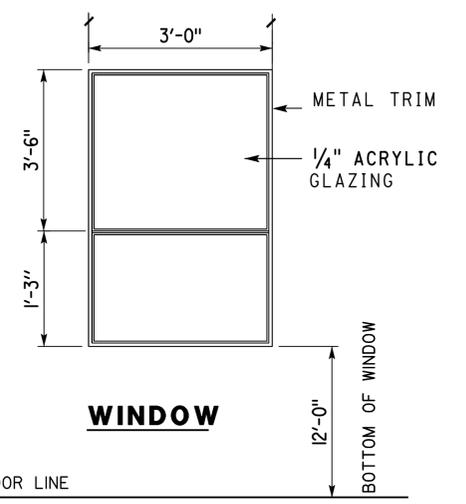


TYPE 2
HOLLOW METAL DOOR

NOTES :

- ① METAL FLASHINGS AND TRIM MUST BE FACTORY COATED OR MUST BE FIELD COATED TO MATCH COLOR OF METAL WALL AND ROOF PANELS.
- ② COLORS ARE SELECTED FROM "FEDERAL STANDARD COLOR" SITE <http://www.colorservers.net>
- ③ SEE PAINTING SPECIAL PROVISIONS FOR COATING SYSTEMS.

MATERIAL	FEDERAL STANDARD COLOR NUMBER	COATING SYSTEM
METAL TRIM & FLASHINGS	37150	SYSTEM 3
METAL WINDOW FRAMES	37150	PREFINISHED
METAL ROOF PANELS	37150	PREFINISHED
METAL WALL PANELS	34504	PREFINISHED
METAL BEAMS, COLUMNS GIRTS, COLUMN SADDLE	34558	SYSTEM 3
METAL GUARD POSTS	37150	SYSTEM 2
METAL BOLTS, FASTENERS, BRACKETS ETC.	N/A	N/A
MAN DOOR	34504	SYSTEM 3
CALTRANS LOGO	CALTRANS LOGO COLOR	SYSTEM 1
CONCRETE WALL INTERIOR	N/A	WATER REPELLANT COATING
OVERHEAD COILING DOOR	34504	SYSTEM 3



DOOR SCHEDULE

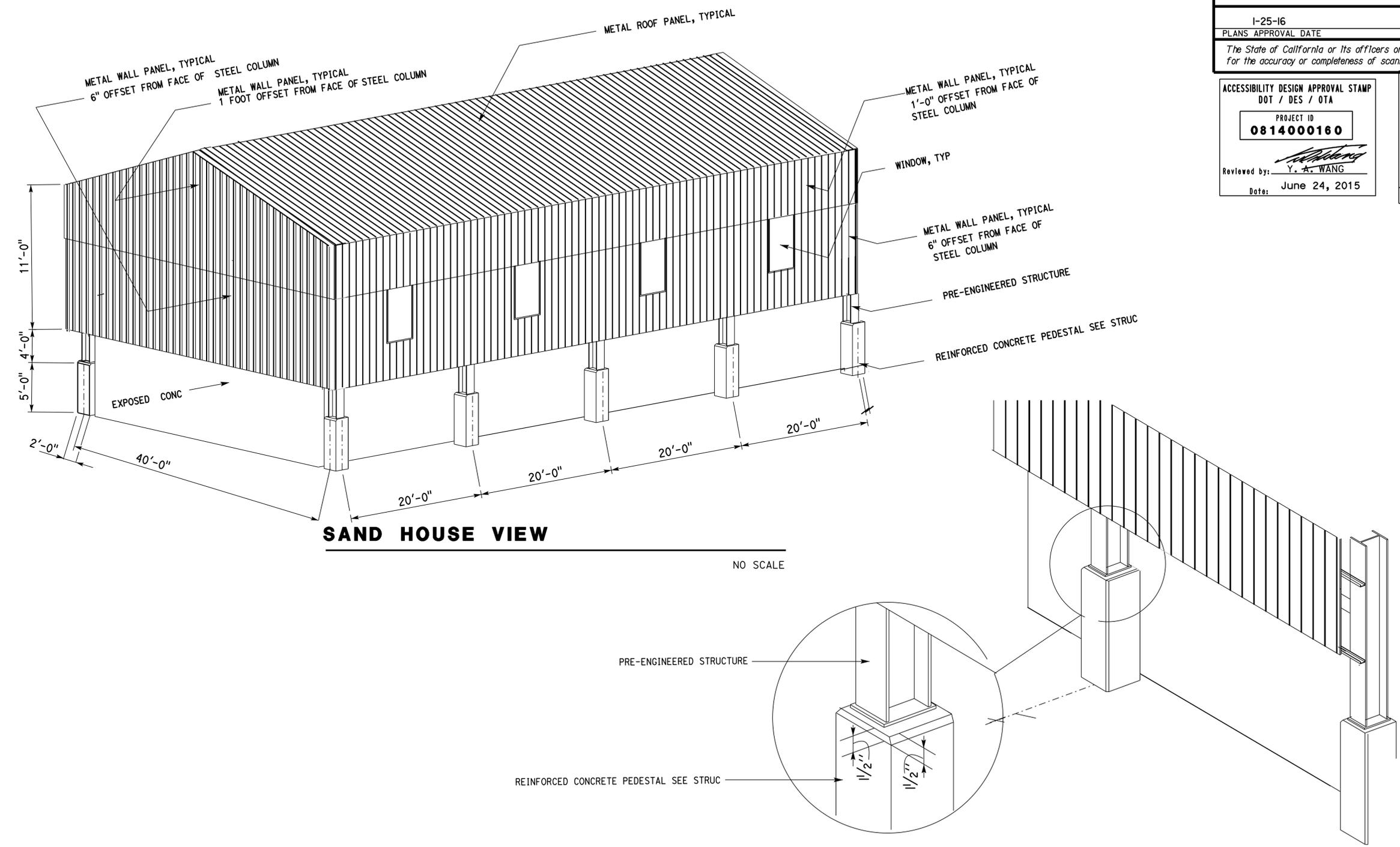
DOOR NO	DOOR TYPE	DOOR SIZE WIDTH X HGT	DOOR THICK	DOOR		FRAME			LABEL ASSY	HDWR GROUP	GLAZING	LOUVER	SIGN DETAIL NO	DETAILS			SIGN TEXT	REMARKS
				MAT	FIN	MAT	TYPE	FIN						WIDTH	HEAD	JAMB		
(A)	1	16'-0" X 16'-0"	-	METAL	PAINT	METAL	1	PAINT	TRACK	--	-	--	-	4/A1-4				
(B)	2	3'-0" X 7'-0"	1 3/4"	HM	PAINT	METAL	1	PAINT	5 3/4"	--	1	--	AO-3.3	1/A1-4	1/A1-4	1/A1-4		

DIST.	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	5759		17	29

Hassan Akhavan
 LICENSED ARCHITECT
 1-21-16
 LICENSED ARCHITECT
 No. C-20451
 Exp. 04-30-17
 STATE OF CALIFORNIA

I-25-16
 PLANS APPROVAL DATE
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 PROJECT ID
0814000160
 Reviewed by: Y. A. WANG
 Date: June 24, 2015
 CALIFORNIA STATE FIRE MARSHAL
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 CSFM # 01-36-11-0077



SAND HOUSE VIEW

NO SCALE

A1-6.dgn TAEMWW Imperial Rev. 7/10	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE	SHEET A1-6
	DETAILS BY Hassan Akhavan	CHECKED Don Alsey		UNIT PROJECT NUMBER & PHASE 245 08140001601	POST MILE		ISOMETRIC
26-JAN-2016 17:14	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)		

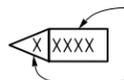
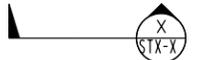
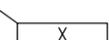
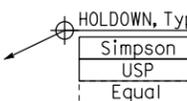
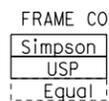
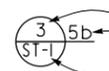
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DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
08	SBd	5759		18	29
 REGISTERED CIVIL ENGINEER			11-25-15 DATE		
1-25-16					
PLANS APPROVAL DATE					
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ABBREVIATIONS

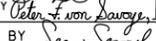
AAD	ADHESIVE ANCHORAGE DEVICE	HD	HOLDOWN
AB	ANCHOR BOLT	Hex	HEXAGON
AC	ASPHALT CONCRETE	Horiz	HORIZONTAL
Alt	ALTERNATE	HSB	HIGH STRENGTH BOLT
APA	AMERICAN PLYWOOD ASSOCIATION	HSS	HOLLOW STRUCTURAL SECTION
APC	ALTERNATIVE PIPE CULVERT	Jt	JOINT
Bldg	BUILDING	LOL	LAYOUT LINE
Blkg	BLOCKING	LVL	LAMINATED VENEER LUMBER
BN	BOUNDARY NAILING	m	METER
Btm	BOTTOM	Max	MAXIMUM
CB	CARRIAGE BOLT	MEA	MECHANICAL EXPANSION ANCHOR
CIDH	CAST IN DRILLED HOLE	Mech	MECHANICAL
CJ	CONTROL JOINT	Mfr	MANUFACTURER
Clr	CLEAR	mm	MILLIMETER
CMU	CONCRETE MASONRY UNIT	Min	MINIMUM
Conc	CONCRETE	MIW	MALLEABLE IRON WASHER
Const	CONSTRUCTION	OC	ON CENTER
Cont	CONTINUOUS	OG	ORIGINAL GRADE
CP	COMPLETE PENETRATION WELD	OH	OPPOSITE HAND
DbI	DOUBLE	Opt	OPTIONAL
DF	DOUGLAS FIR	P	PITCH
Dia	DIAMETER	PDF	POWER DRIVEN FASTENER
DIP	DUSTILE IRON PIPE	Plwd	PLYWOOD
DN	DIAMETER NOMINAL	PT	PRESSURE TREATED
do	DITTO	PW	PUDDLE WELD
(E)	EXISTING	PWB	PREFABRICATED WOOD I BEAM
Ea	EACH	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	Reinf	REINFORCED, REINFORCING
Elec	ELECTRICAL	Req'd	REQUIRED
Embed	EMBEDMENT	SDSTS	SELF DRILL, SELF TAP SCREW
EN	EDGE NAIL	Sim	SIMILAR
Eq	EQUAL	SPS	STRUCTURAL PLYWOOD SHEATHING
Exp	EXPANSION	Sq	SQUARE
FDGM	FREE DRAINING GRANULAR MATERIAL	Stagg	STAGGERED
FG	FINISH GRADE	Std	STANDARD
FL	FLOW LINE	SW	STUD WELD
Fir	FLOOR	Sym	SYMMETRICAL
FN	FACE (FIELD) NAIL	T&G	TONGUE-AND-GROOVE
FOC	FACE OF CONCRETE	TN	TOE NAIL
FOM	FACE OF MASONRY	TS	TUBE STEEL
FOS	FACE OF STUD	Typ	TYPICAL
Ftg	FOOTING	UON	UNLESS OTHERWISE NOTED
Ga	GAGE	Vert	VERTICAL
Galv	GALVANIZED		
GLM	GLUE LAMINATED MEMBER		
Gyp Bd	GYP SUM BOARD		
GWT	GROUND WATER TABLE		

SYMBOLS

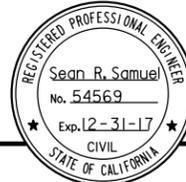
	BLOCKING IN SECTION OR ELEVATION		CMU WALL ON PLAN VIEWS
	CONTINUOUS MEMBER IN SECTION		DROPPED SLAB ON PLAN VIEWS
	END OF MEMBER		REINFORCED CONCRETE
	BEARING WALL		SAND
	SHEAR WALL		STRUCTURE BACKFILL
	LENGTH SHEARWALL SCHEDULE SYMBOL REFERENCE		STRUCTURE EXCAVATION
	GLUE LAMINATED MEMBER SECTION		ORIGINAL GROUND
	NORTH ARROW		LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)
	PARTIAL SECTION CUT		FREE DRAINING GRANULAR MATERIAL
	FULL SECTION CUT		BOTTOM OF FOOTING
	REVISION CALLOUT		ELEVATION OR WORKING POINT
	GRID LINE INDICATOR		EXISTING FEATURES
	CENTER LINE		HOLDDOWN, Typ (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STATION LINE		FRAME CONNECTOR (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STEEL PLATE		DETAIL NUMBER OR NOTE NUMBER ADDITIONAL REFERENCE (IF REQUIRED) SHEET NUMBER
	DIAMETER		
	SQUARE		

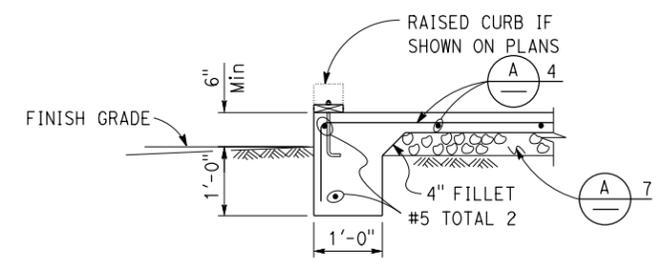
CALIFORNIA STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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 Reviewed by: 
 Andrew McSorley
 Approval date: 10/27/2015
 CSFM # 01-36-11-0077

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

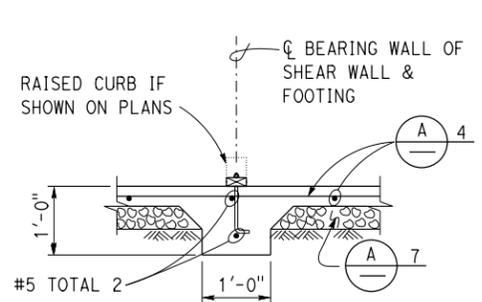
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DRAWING DATE 1-04		SUBMITTED BY 		DESIGN ENGINEER		DESIGN SUPERVISOR		POST MILE		LEGEND		SHEET OF	
TAEMWW Imperial Rev. 7/10		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3599 08140001601		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 1-16-04 04-27-12 08-24-12 06-13-14		SHEET OF		s10_01.dgn	

DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
08	SBd	5759		19	29

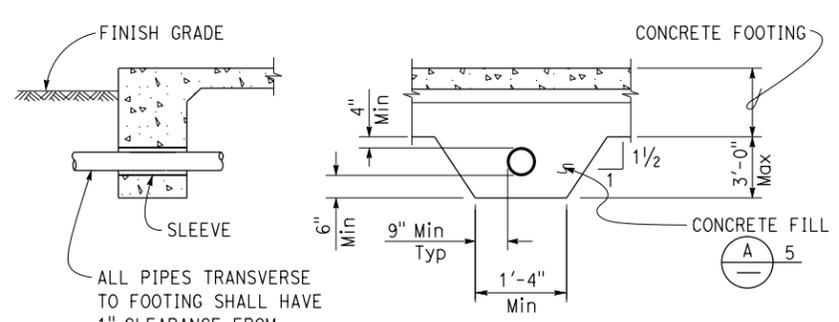
	
REGISTERED CIVIL ENGINEER	DATE 11-25-15
1-25-16	
PLANS APPROVAL DATE	
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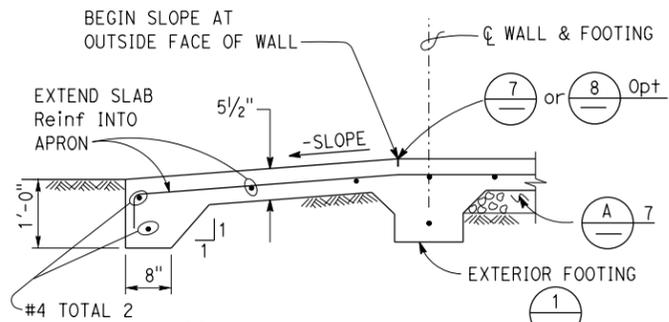
1 EXTERIOR FOOTING
NO SCALE



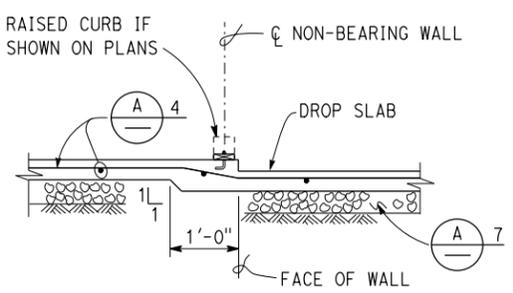
5 INTERIOR FOOTING
NO SCALE



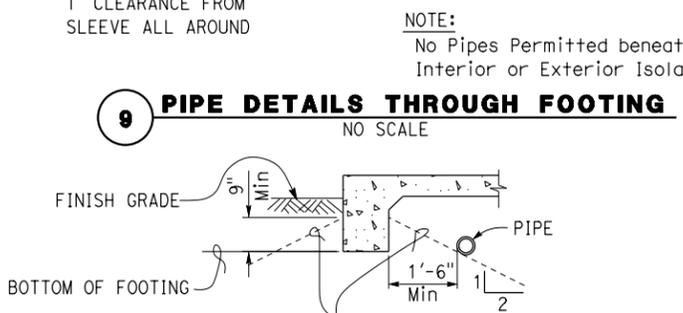
9 PIPE DETAILS THROUGH FOOTING
NO SCALE



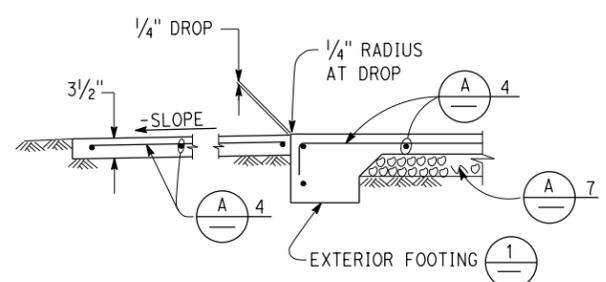
2 DRIVEWAY APRON
NO SCALE



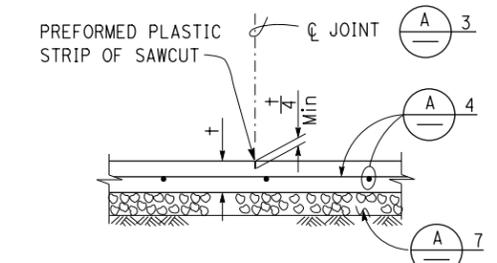
6 DROP SLAB AT NON-BEARING WALL
NO SCALE



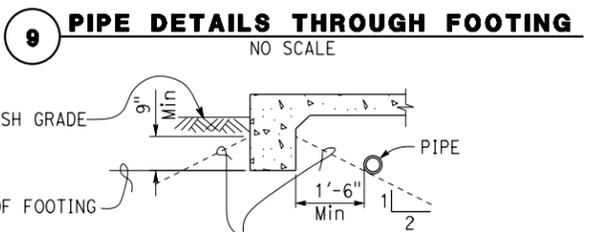
10 PIPE DETAILS PARALLEL TO FOOTING
NO SCALE



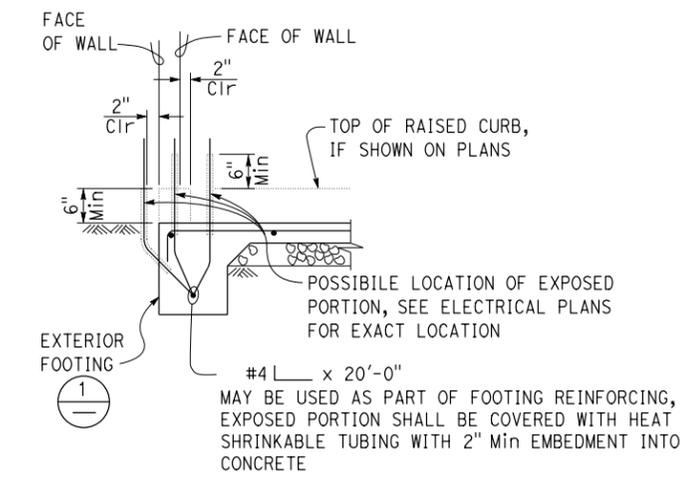
3 WALKWAY APRON
NO SCALE



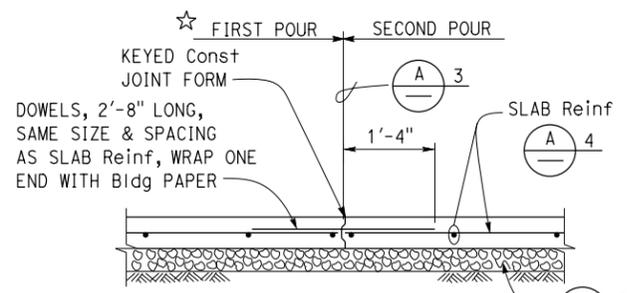
7 CONTROL JOINT
NO SCALE



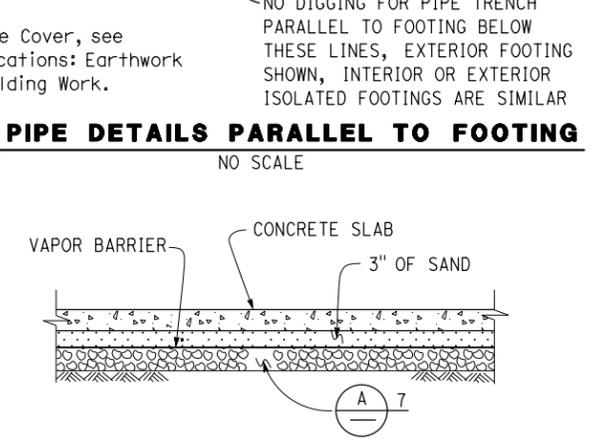
11 MOISTURE BARRIER
NO SCALE



4 GROUND BAR DETAIL
NO SCALE



8 CONTRACTION JOINT
NO SCALE



12 CORNER/INTERSECTION REINF SPLICE
NO SCALE

A CONCRETE NOTES

- The following minimum concrete cover shall be provided for reinforcement.

	Minimum Cover
a. Concrete cast against and permanently exposed to earth	3"
b. Concrete exposed to earth or weather but cast in forms:	
#6 thru #18 bars	2"
#5 bar and smaller, W31 or D31 Wire, and smaller	1 1/2"
c. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and Joists:	
#14 and #18 Bar	1 1/2"
#11 Bar and smaller	3/4"
Beams and Columns:	
Primary Reinforcement, Ties, Stirrups and Spirals	1 1/2"
- Splices in continuous reinforcement as in Walls, Wall Footings, etc. #8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0" apart.

Continuous Bars in spandrels, Wall Beams, etc. shall lap Top Bars at center of span and Bottom Bars at supports.
- Contraction Joints and Control Joints shall divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing shall not exceed 15'-0".
- Slab Thickness (t) Reinforcement

3 1/2"	#3 @ 18	Each way, place in center of Slab
5 1/2"	#4 @ 18	Each way, place in center of Slab
7 1/4"	#4 @ 12	Each way, place in center of Slab
- Concrete fill is to be placed before Footing is poured. Make the same width as the Footing and the full width of the Pipe trench. Concrete fill not required for pipes less than 2" diameter for pipes more than 3'-0" below bottom of footing.
- See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
- Place 4" of free draining granular material under slabs.

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-1	DESIGN BY Sean Samuel	CHECKED BY Sean Samuel	APPROVED BY R.E. Travis	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE	SHEET ST-2
DRAWING DATE 1-04	DETAILS BY Peter F. von Sawoy	CHECKED BY Sean Samuel	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	CONCRETE STANDARD	
TAEMWW Imperlal Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 08140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 1-18-04 11-14-05 04-27-12 08-24-12	SHEET OF	

25-JAN-2016 14:55

PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2013 California Building Code.

DETAIL NOTES

A PRE-ENGINEERED BUILDING DESIGN NOTES

DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
08	SBd	5759		20	29

 REGISTERED CIVIL ENGINEER	12-31-15 DATE	
1-25-16 PLANS APPROVAL DATE		

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LOADS

Seismic: Risk category = I
 Importance factor $I_e = 1.0$
 Site soil class D =
 $S_s = 1.9450$ $S_{DS} = 1.297$
 $S_1 = 0.6720$ $S_{D1} = 0.672$
 Seismic design category = D
 Seismic force-resisting system:
North - South
 Ordinary moment frame
 $R = 3.50$ $C_s = 0.3705$
East - West
 Ordinary concentrically braced frame
 $R = 3.25$ $C_s = 0.3990$

Wind: Risk category = I
 Ultimate design wind speed = 110 mph
 Nominal design wind speed = 85 mph
 Exposure C

Live load: Roof = 20 psf

Snow load: $P_f = 100$ psf
 $P_g = 165$ psf

- For concrete see: "Concrete Standard"
- All bolts must be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers must be helical spring lock washers.
- All miscellaneous metal to must be hot-dip galvanized after fabrication.
- All reinforcing bars must be epoxy coated except ground bars.
- All reinforcing bars must have 3" clear, Unless Otherwise Noted..
- Foundation design is subject to modification per pre-engineered building design. Construct based upon the requirements of the foundation after approval of pre-engineered building submittal.

- Rigid frames must be provided at gridlines A through E
- Concentrically braced frames must be provided at gridlines 1 and 2
- For design loads, see "Project Design Criteria", this sheet.
- Collateral loads must include mechanical and electrical system, Overhead doors, etc.
- Deflection criteria :
 Story drift = $H/100$
 Framing members = $L/180$ (D+5)
 Roof and wall panels = $L/240$
- Maximum roof purlin spacing is to be 5'-0" OC.
- Provide framing for all wall and roof penetrations, electrical fixtures and doors. Framing plans, details and calculations must be submitted for approval prior to any installation.
- Girts must be the exterior type.
- Anchor bolts shown are minimum. Follow pre-engineered building manufacturer requirements.
- The pre-engineered building design must not transmit moment into the footings.
- The pre-engineered building design plans, details and all calculations must be submitted for approval prior to any installation.
- Rigid frame must not induce gravity load into girt columns. Girt columns must resist lateral loads only.

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 Reviewed by: 
 Andrew McSorley
 Approval date: 10/27/2015
 CSFM * 01-36-11-0077

MATERIALS

Reinforced concrete: (Ultimate strength design) :
 $f'_c = 3,600$ psi
 $f_y = 60,000$ psi
 REINFORCEMENT MUST BE EPOXY COATED

Structural steel: (Allowable strength design) :
 Wide flange $F_y = 50$ ksi
 Channels, angles $F_y = 36$ ksi
 Plates $F_y = 36$ ksi

Foundation:
 Allowable soil pressure (DL + LL) : = 1,500 psf

DESIGN	BY Justin Uyehara	CHECKED Tom Mesich
DETAILS	BY Pete von Savoye	CHECKED Tom Mesich
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	54M5759	ONYX SUMMIT SANDHOUSE DESIGN CRITERIA AND DETAIL NOTES	SHEET	ST1-0
POST MILE			OF	

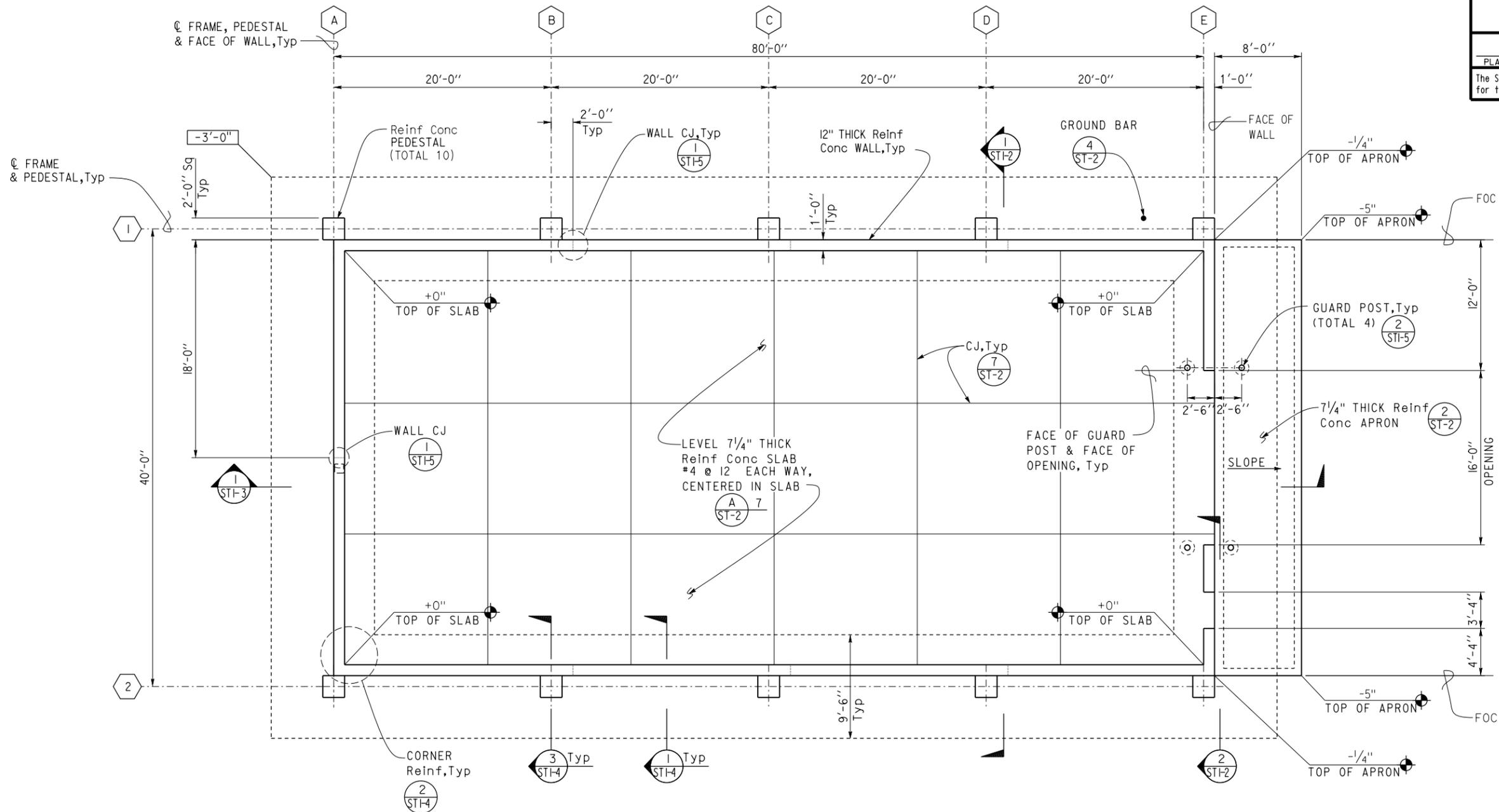
DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
08	SBd	5759		21	29

<i>Sean Samuel</i>	12-31-15	REGISTERED PROFESSIONAL ENGINEER No. 54569 Exp. 12-31-17 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE	

1-25-16
PLANS APPROVAL DATE

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Reviewed by: *Andrew McSorley*
Andrew McSorley
Approval date: 10/27/2015
CSFM * 01-36-11-0077



Note:
For "CT" logo on concrete bin wall, see architectural sheet for details.

☆ Note
Girt column located at top of concrete wall.
Number of columns, and spacing, as per pre-engineered building designer.

Elevation 1310.75 ft = Datum 0'-0"

1 FOUNDATION PLAN
3/16" = 1'-0"

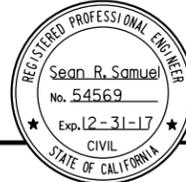


DESIGN	BY Justin Uyehara	CHECKED Tom Mesich	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE	SHEET ST1-1
	DETAILS	BY Pete von Savoye			CHECKED Tom Mesich		
QUANTITIES	BY	CHECKED	PROJECT NUMBER & PHASE 3599 08140001601		DISREGARD PRINTS BEARING EARLIER REVISION DATES	FOUNDATION PLAN	REVISION DATES (PRELIMINARY STAGE ONLY)

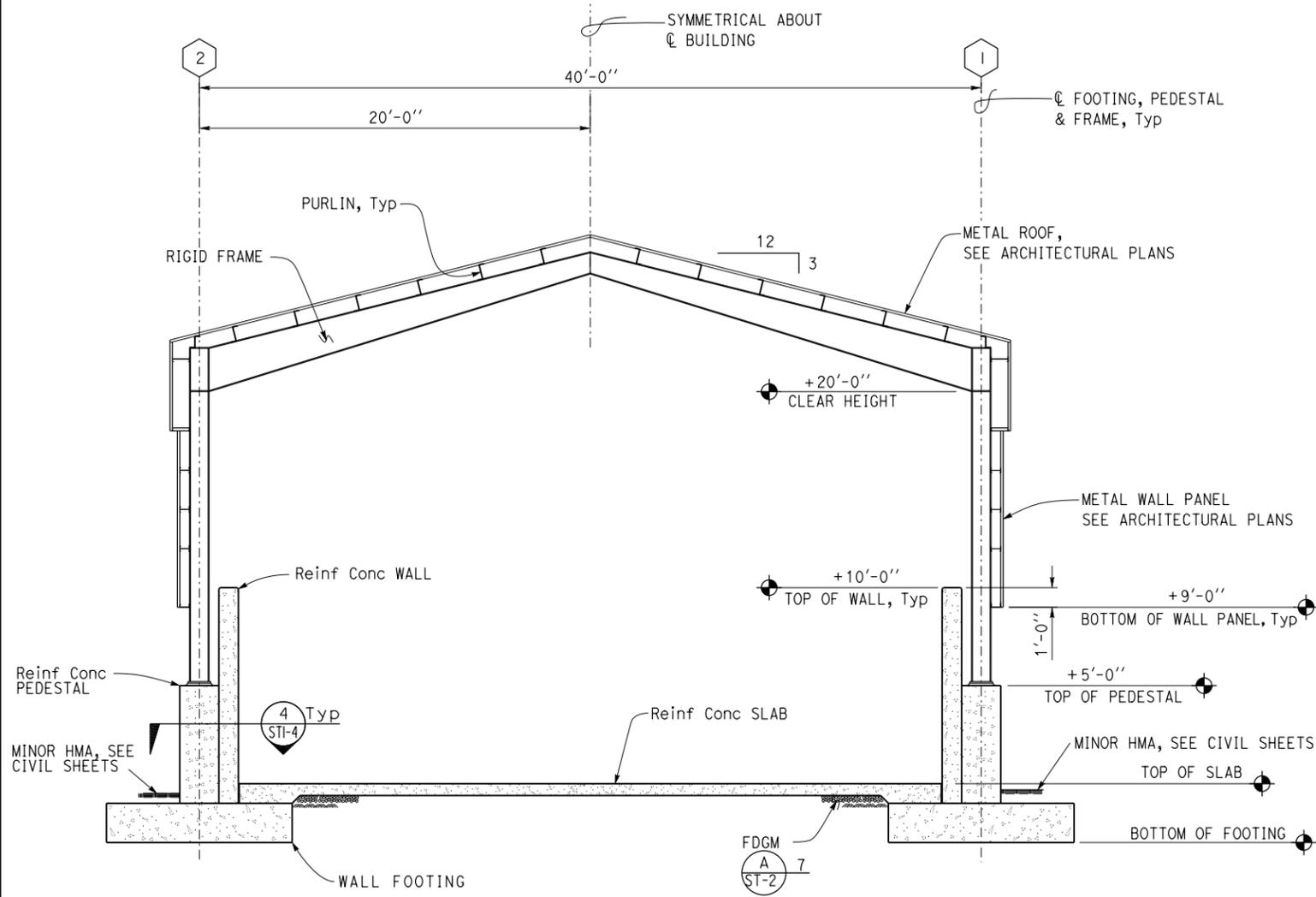
TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3599 08140001601 EA 1F1101

REVISION DATES (PRELIMINARY STAGE ONLY) 08-29-14 11-20-15

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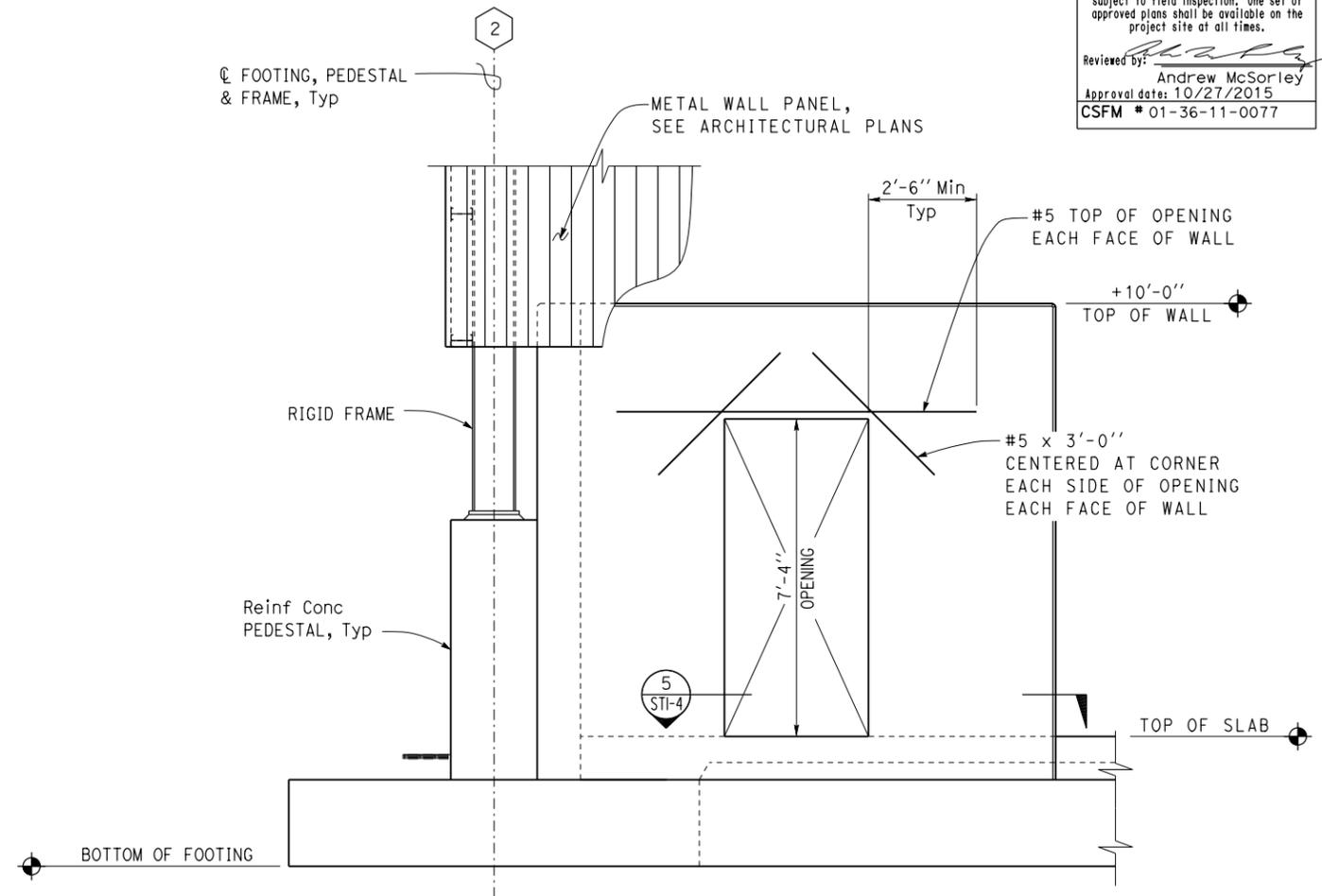
DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
08	SBd	5759		22	29
 REGISTERED CIVIL ENGINEER			12-31-15 DATE		
1-25-16 PLANS APPROVAL DATE					
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 CSFM * 01-36-11-0077



Note:
For elevation views, see architectural plans.

1 TRANSVERSE BUILDING SECTION
 $\frac{1}{4}'' = 1'-0''$

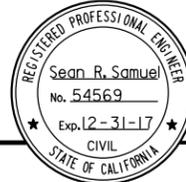


Note:
Apron not shown for clarity.

2 DOOR OPENING DETAIL
 $\frac{1}{2}'' = 1'-0''$

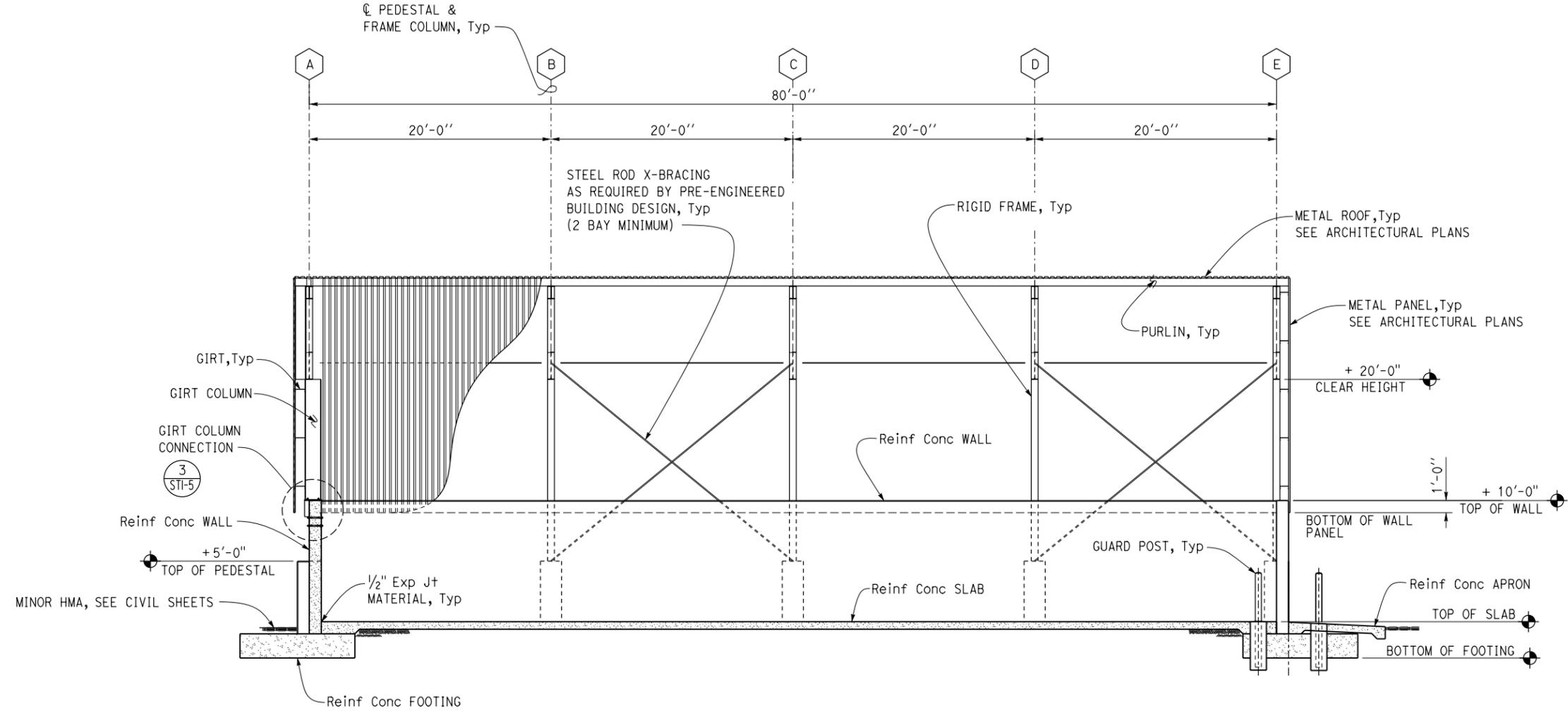
DESIGN	BY	Justin Uyehara	CHECKED	Tom Mesich	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	POST MILE	ON YX SUMMIT SANDHOUSE	SHEET ST1-2	
	DETAILS	BY	Pete von Savoye	CHECKED							Tom Mesich
QUANTITIES	BY		CHECKED		UNIT PROJECT NUMBER & PHASE 3599 08140001601		DISREGARD PRINTS BEARING EARLIER REVISION DATES 08-29-14		REVISION DATES (PRELIMINARY STAGE ONLY)		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3			SHEET OF			
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DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
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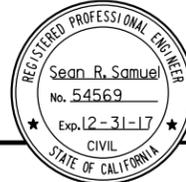
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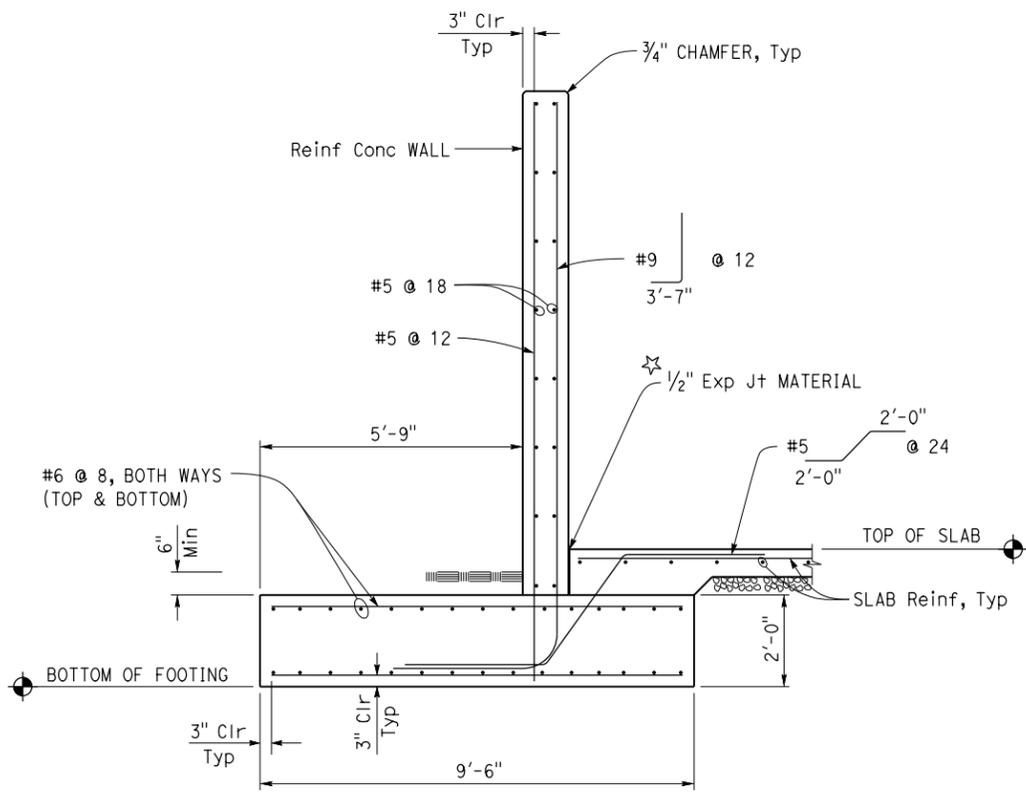


1 LONGITUDINAL BUILDING SECTION
 $\frac{3}{16}'' = 1'-0''$

DESIGN BY Justin Uyehara CHECKED BY Tom Mesich DETAILS BY Pete von Savoye CHECKED BY Tom Mesich QUANTITIES BY CHECKED BY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M5759	ONYX SUMMIT SANDHOUSE LONGITUDINAL BUILDING SECTION	SHEET ST1-3
			POST MILE		DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 08-29-14 11-20-15

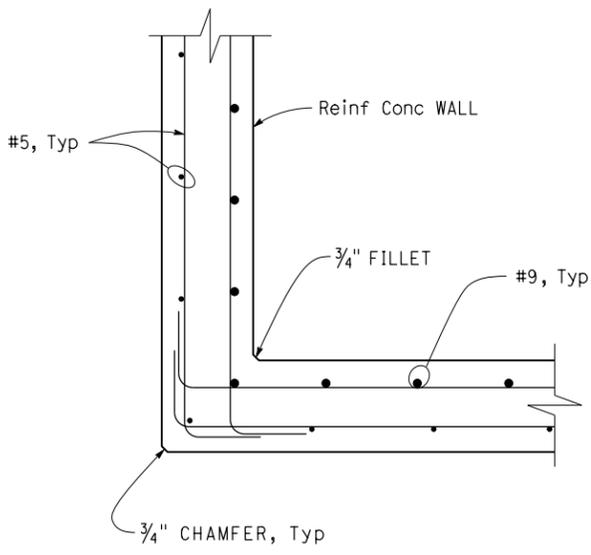
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 REGISTERED CIVIL ENGINEER				12-31-15	DATE
					
1-25-16					
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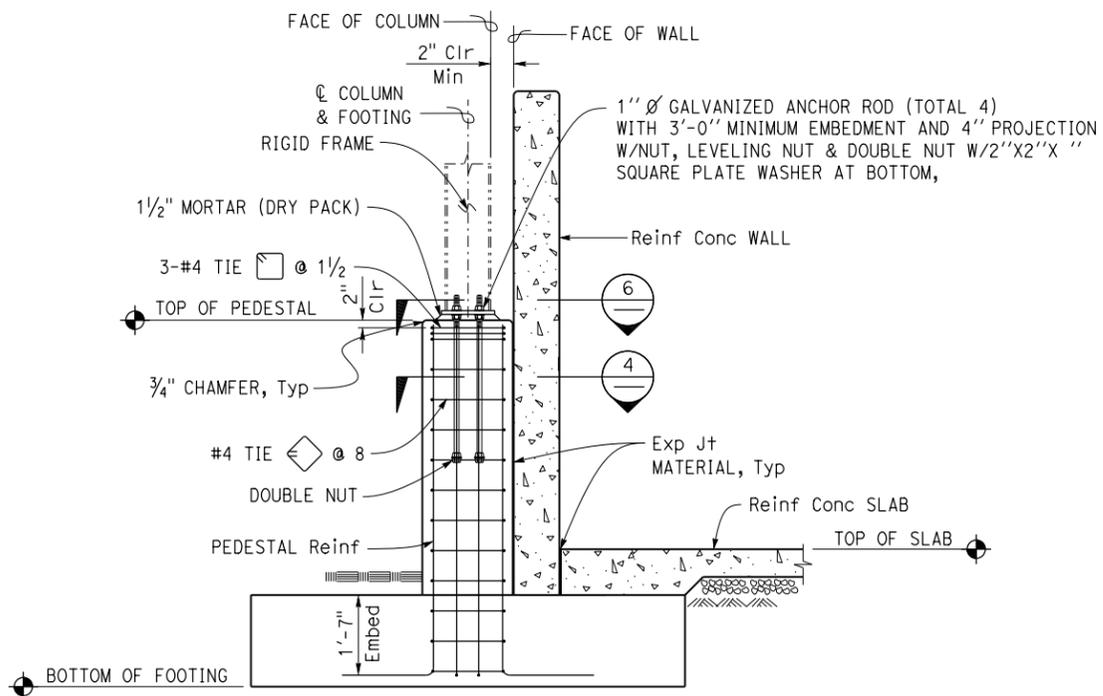


Note: Expansion joint material must be placed between concrete slab and concrete walls at all locations.

1 CONCRETE WALL SECTION
 $1/2" = 1'-0"$

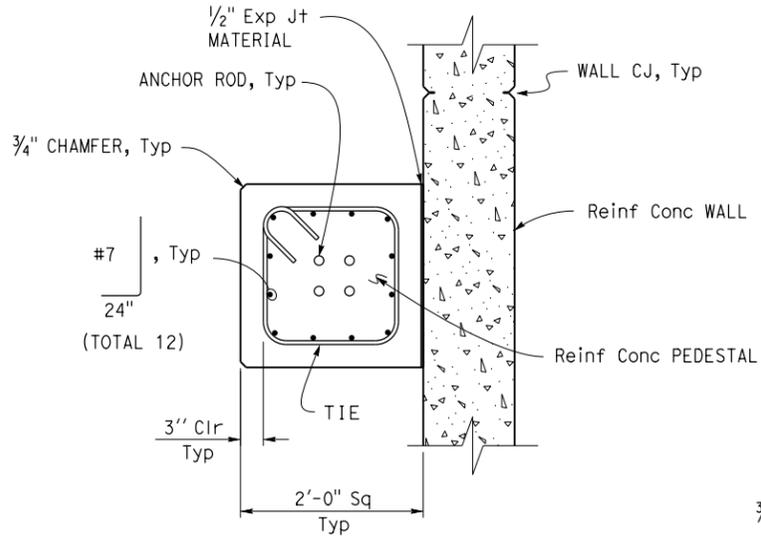


2 CONCRETE WALL CORNER SECTION
 $1" = 1'-0"$

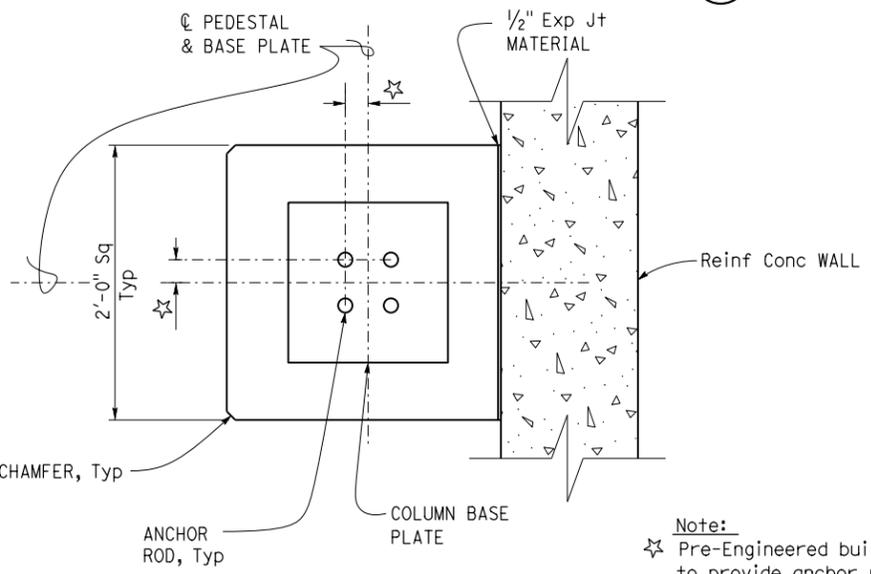


Note: For dimensions and reinforcement not shown, see $\frac{1}{2}$

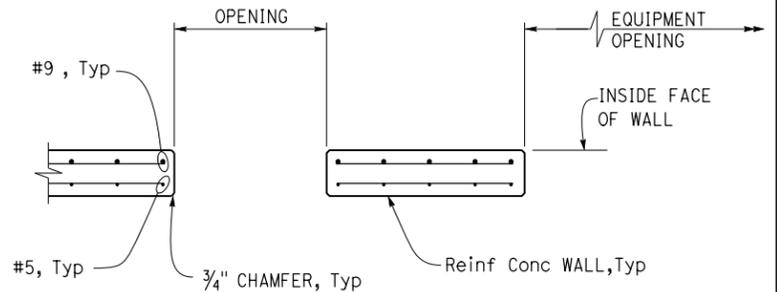
3 PEDESTAL SECTION
 $1/2" = 1'-0"$



4 PEDESTAL DETAIL
 $1" = 1'-0"$



6 PEDESTAL DETAIL
 $1/2" = 1'-0"$



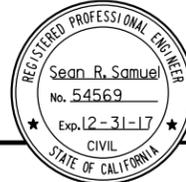
Note: For wall reinforcement, see $\frac{1}{2}$

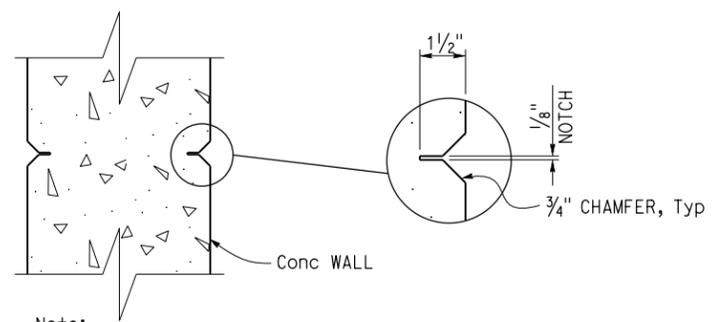
5 DOOR OPENING SECTION
 $1/2" = 1'-0"$

Note: Pre-Engineered building manufacturer to provide anchor rod spacing.

DESIGN	BY	Justin Uyehara	CHECKED	Tom Mesich	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	54M5759	ON YX SUMMIT SANDHOUSE FOUNDATION & PEDESTAL DETAILS	SHEET	ST1-4
	DETAILS	BY	Pete von Savoye	CHECKED			Tom Mesich	POST MILE			REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES	BY		CHECKED		UNIT	3599	DISREGARD PRINTS BEARING EARLIER REVISION DATES	08-29-14 11-20-15			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	P:\dist_08\0814000160_onyx_summit_sandhouse\expdite\0A_Reviewed\1-25-16-Stru_dgn\st1_04.dgn		

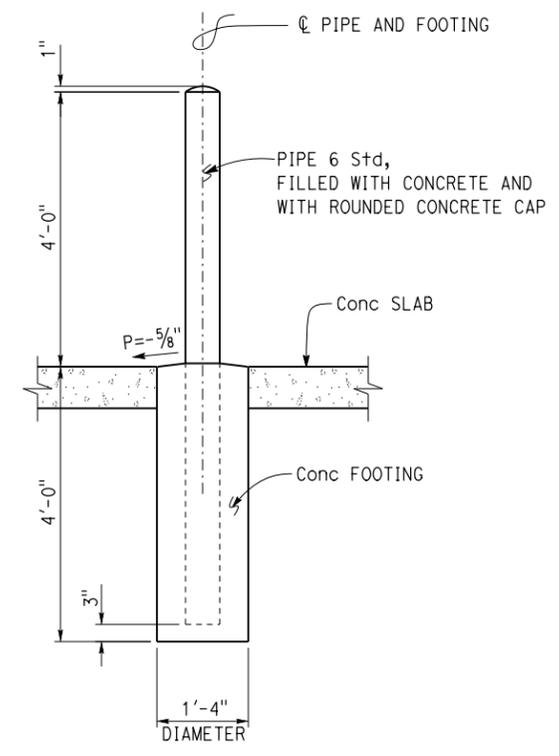
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DIST.	COUNTY	LOCATION CODE	POST MILE	SHEET NO.	TOTAL SHEETS
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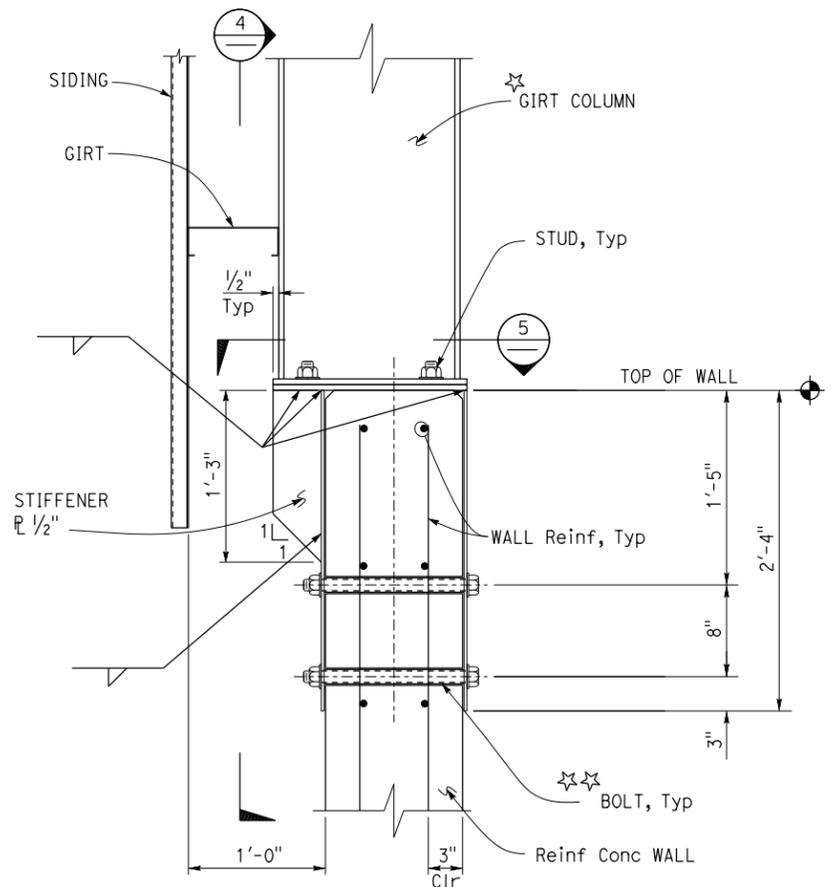
Note:
Control joints occur on interior and exterior face of concrete wall.

1 WALL CONTROL JOINT DETAIL
2" = 1'-0"



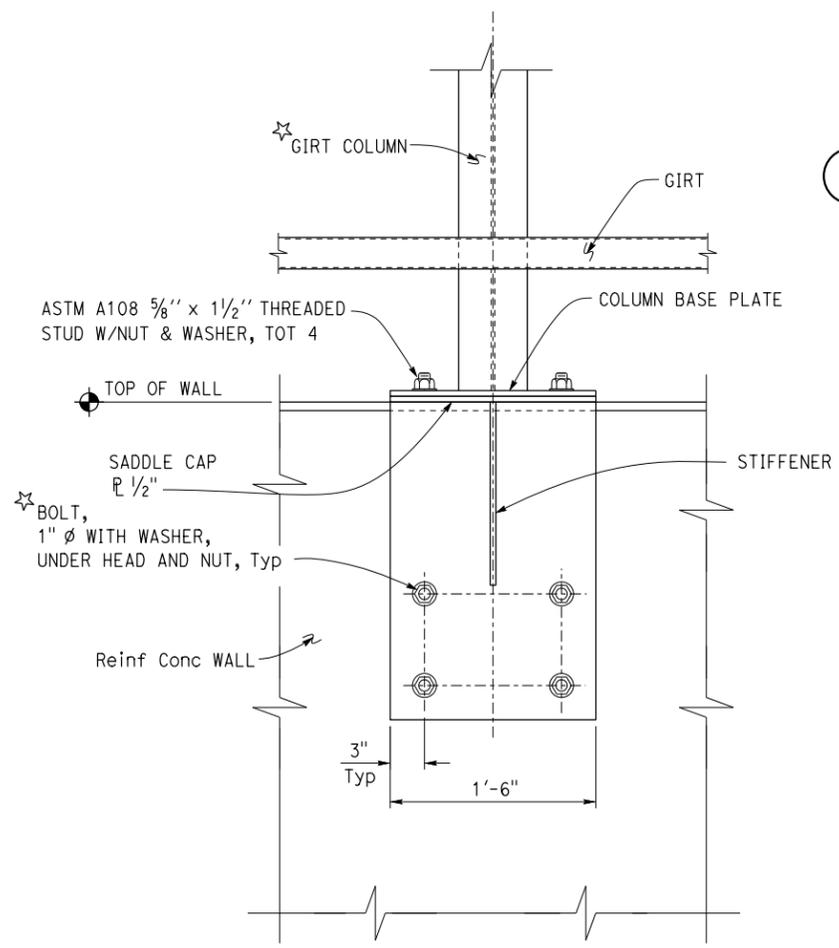
2 GUARD POST DETAIL
3/4" = 1'-0"

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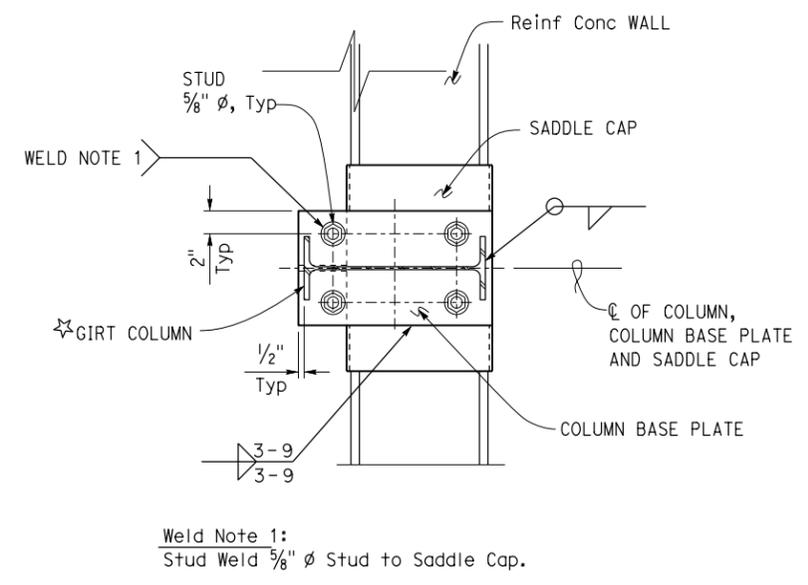


- Notes:
- ☆ 1. Girt column as per pre-engineered building manufacturer.
 - ☆☆ 2. Provide neoprene sleeves for bolts, Typ
 - 3. Provide blockout holes to accommodate bolt diameter, and neoprene sleeve thickness.

3 GIRT COLUMN SECTION
1 1/2" = 1'-0"



4 GIRT COLUMN ELEVATION
1 1/2" = 1'-0"



Weld Note 1:
Stud Weld 5/8" diameter Stud to Saddle Cap.

5 GIRT COLUMN PLAN
Scale 1 1/2" = 1'-0"

DESIGN	BY	Justin Uyehara	CHECKED	Tom Mesich	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	54M5759	ONYX SUMMIT SANDHOUSE	SHEET ST1-5
	DETAILS	BY	Pete von Savoye	CHECKED			Tom Mesich	POST MILE		
QUANTITIES	BY		CHECKED		UNIT	3599	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	03-02-14 11-20-15	
PROJECT NUMBER & PHASE					08140001601	EA 1F1101		P:\dist_08\0814000160_onyx_summit_sandhouse\expdite\0A_Reviewed\1-25-16-Stru_dgn\st1_05.dgn		

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING	WALL
	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT OR LED FIXTURES
NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.	
EXAMPLE : (4) F2-2x32 	
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S2	DOUBLE-POLE SWITCH
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SD	AUTOMATIC DOOR
SK	KEY OPERATED SWITCH
SP	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SR	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
SVS	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S0	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S2	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
TS	TIMER SWITCH
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
---	CONDUIT CONCEALED IN CEILING OR WALL
----	CONDUIT CONCEALED IN FLOOR
-x-x-	CONDUIT EXPOSED
-#-#-	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
A1,2	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
—SM—	SURFACE METAL RACEWAY
(2) 1/2"C, PVC, 2#12	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
—MC—	CONDUIT, RIGID STEEL, UNDERGROUND
—PVC—	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
○	POLE
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	HEAT DETECTOR
	SMOKE DETECTOR
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT, AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
-E---E-	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-x---x-	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
X	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
GFCI	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	5759		26	29
			11-18-15		
REGISTERED ELECTRICAL ENGINEER			DATE		
1-25-16 PLANS APPROVAL DATE					
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 Reviewed by:
 Andrew McSorley
 Approval date: 10/27/2015
 CSFM # 01-36-11-0077

DESIGN BY Beatrice Bindu	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	ONYX SUMMIT SANDHOUSE	SHEET EE0-0
				54M5759		
DETAILS BY Yawen Sun	CHECKED Beatrice Bindu			POST MILE	LEGEND	SHEET OF 1 4
QUANTITIES BY Beatrice Bindu	CHECKED Mark Cheap					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3597 CONTRACT No.: 08-1F1104 PROJECT NUMBER & PHASE: 08140001601		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
0 1 2 3				11-18-15 11-18-15		
TAEWW Imperial - CCSC Rev. 02/13						

ABBREVIATIONS

A
 A AMPERES
 AC ALTERNATING CURRENT or ASPHALT CONCRETE
 A/C AIR CONDITIONING UNIT
 ACS AIR COMPRESSOR STARTER
 AFCI ARC FAULT CIRCUIT INTERRUPTER
 AI ANALOG INPUT
 AL ALARM LIGHT
 AO ANALOG OUTPUT
 Approx APPROXIMATE
 AR ALARM RESET
 AVC AIR VOLUME CONTROLLER

B
 BC BARE COPPER
 BD BUILDING DISCONNECT
 Bldg BUILDING
 BP BOOSTER PUMP
 Brk BREAKER

C
 C CONDUIT
 Cat CATEGORY
 CB CIRCUIT BREAKER
 CC CENTER CHANNEL LIGHT
 CCTV CLOSED CIRCUIT TELEVISION
 CD CONTROL DISCONNECT
 Ckt CIRCUIT
 CL CHAIN LINK
 CL CENTER LINE
 Clr CLEAR or CLEARANCE
 CM CENTER MARGIN LIGHT
 CMS CHANGEABLE MESSAGE SIGN
 COMM COMMUNICATION
 Conc CONCRETE
 CR CONTROL RELAY
 CSW CURRENT SWITCH

D
 D DEPTH
 DC DIRECT CURRENT
 DI DIGITAL INPUT
 Dia DIAMETER
 DLC LOOP DETECTOR LEAD-IN CABLE
 DO DIGITAL OUTPUT
 DP DUPLEX PLUG RECEPTACLE
 DS DOOR SWITCH

E
 (E) EXISTING
 EB EASTBOUND
 EF EXHAUST FAN
 Elev ELEVATION
 EMS EXTINGUISHABLE MESSAGE SIGN

F
 F FUSE
 FG FINISH GRADE
 FL FAILURE LIGHT
 FLA FLASHER
 Flex FLEXIBLE CONDUIT
 FLS FLOW SWITCH
 FO FIBER OPTIC
 FR FAILURE RESET or FLAME RESISTANT
 FS FLOAT SWITCH

G
 G GROUND
 Ga GAUGE
 Galv GALVANIZED
 GFCI GROUND FAULT CIRCUIT INTERRUPTER
 GRS GALVANIZED RIGID STEEL

H
 hp HORSEPOWER
 HPS HIGH PRESSURE SODIUM

I
 IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER CABINET
 IR INDUCTION RELAY
 ISR INTRINSICALLY SAFE RELAY

J
 JB JUNCTION BOX

K
 KV KILOVOLT
 KVA KILOVOLT AMPERES
 KW KILOWATT

L
 L LIGHT or LENGTH
 LC LIGHTING CONTACTOR
 LCD LIQUID CRYSTAL DISPLAY
 LCP LIGHTING CONTROL PANEL
 LD LIGHT DISCONNECT
 LDCI LEAK DETECTOR CIRCUIT INTERRUPTER
 LED LIGHT EMITTING DIODE
 LL LIQUID LEVEL RELAY
 LLC LIQUID LEVEL CONTROLLER
 LP LIGHT PANEL
 LPS LOW PRESSURE SODIUM
 LS LIGHT SWITCH
 LT LIGHT TRANSFORMER
 LTO LIGHT TRANSFORMER OVERLOAD

M
 Max MAXIMUM
 MB MAIN BREAKER
 MC METALLIC CONDUIT
 MCP MOTOR CIRCUIT PROTECTOR
 MCC MOTOR CONTROL CENTER
 MD MOTOR DISCONNECT
 MH MOUNTING HEIGHT
 Min MINIMUM
 Misc MISCELLANEOUS
 MSB MAIN SWITCHBOARD
 MT EMPTY CONDUIT

N
 (N) NEW
 Nav NAVIGATIONAL LIGHTS
 NB NEUTRAL BUS or NORTHBOUND
 NC NORMALLY CLOSED
 No. NUMBER
 Nos. NUMBERS
 NO NORMALLY OPEN
 NSW NEUTRAL SWITCHING BREAKER

O
 O/C ON CENTER
 OG ORIGINAL GROUND
 OH OVERHEAD
 OL OVERLOAD

P
 P POLE (CIRCUIT BREAKER)
 PB PULL BOX or PUSHBUTTON
 PCC PORTLAND CONCRETE CEMENT
 PCP PUMP CONTROL PANEL
 PD PUMP DISCONNECT
 PEC PHOTOELECTRIC CONTROL
 PEU PHOTOELECTRIC UNIT
 PFR PHASE FAILURE RELAY
 PFRD PHASE FAILURE RELAY DISCONNECT
 PL PLATE
 PL PILOT LIGHT
 PS PRESSURE SWITCH
 PTS POWER TRANSFER SWITCH
 PV PHOTOVOLTAIC
 PVC POLYVINYL CHLORIDE

R
 RD RECEPTACLE DISCONNECT
 RES RESISTOR
 Rm ROOM
 RTB RADIO TERMINAL BOARD
 R/W RIGHT OF WAY

S
 S STARTER COIL
 Sch SCHEDULE
 SD SERVICE DISCONNECT
 Sec SECONDS
 SFR SEAL FAILURE RELAY
 SL SUMP LIGHT
 SPR STANDBY POWER RECEPTACLE
 Sq SQUARE
 SS SELECTOR SWITCH
 ST STARTER
 Std STANDARD
 SV SOLENOID VALVE
 SWIM SLOW WEIGH-IN-MOTION

T
 TB TERMINAL BLOCK
 TC TELEPHONE CABLE
 TDR TIME DELAY RELAY
 TGLS TOGGLE SWITCH
 TM TIME METER
 Tot TOTAL
 TS TIMER SWITCH
 TSW TEST SWITCH
 TTB TELEPHONE TERMINAL BOARD
 Typ TYPICAL

U
 UPS UNINTERRUPTIBLE POWER SUPPLY

V
 V VOLT(S)
 Var VARIABLE or VARIES

W
 W WATT or WIDTH
 WB WESTBOUND
 WIM WEIGH-IN-MOTION
 WLS WATER LEVEL SWITCH
 WP WEATHERPROOF
 WSMS WEIGH STATION MESSAGE SIGN

X
 XFMR TRANSFORMER

SYMBOLS

∠ ANGLE
 @ AT
 ° DEGREES
 Δ DELTA
 Ω OHM(S)
 ∅ PHASE
 ± PLUS OR MINUS

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 Reviewed by: *[Signature]*
 Andrew McSorley
 Approval date: 10/27/2015
 CSFM * 01-36-11-0077

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	5759		27	29
Registered Electrical Engineer <i>[Signature]</i> DATE 11-18-15 1-25-16 PLANS APPROVAL DATE					
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PROJECT NOTES

1. Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.

STANDARD NOTES

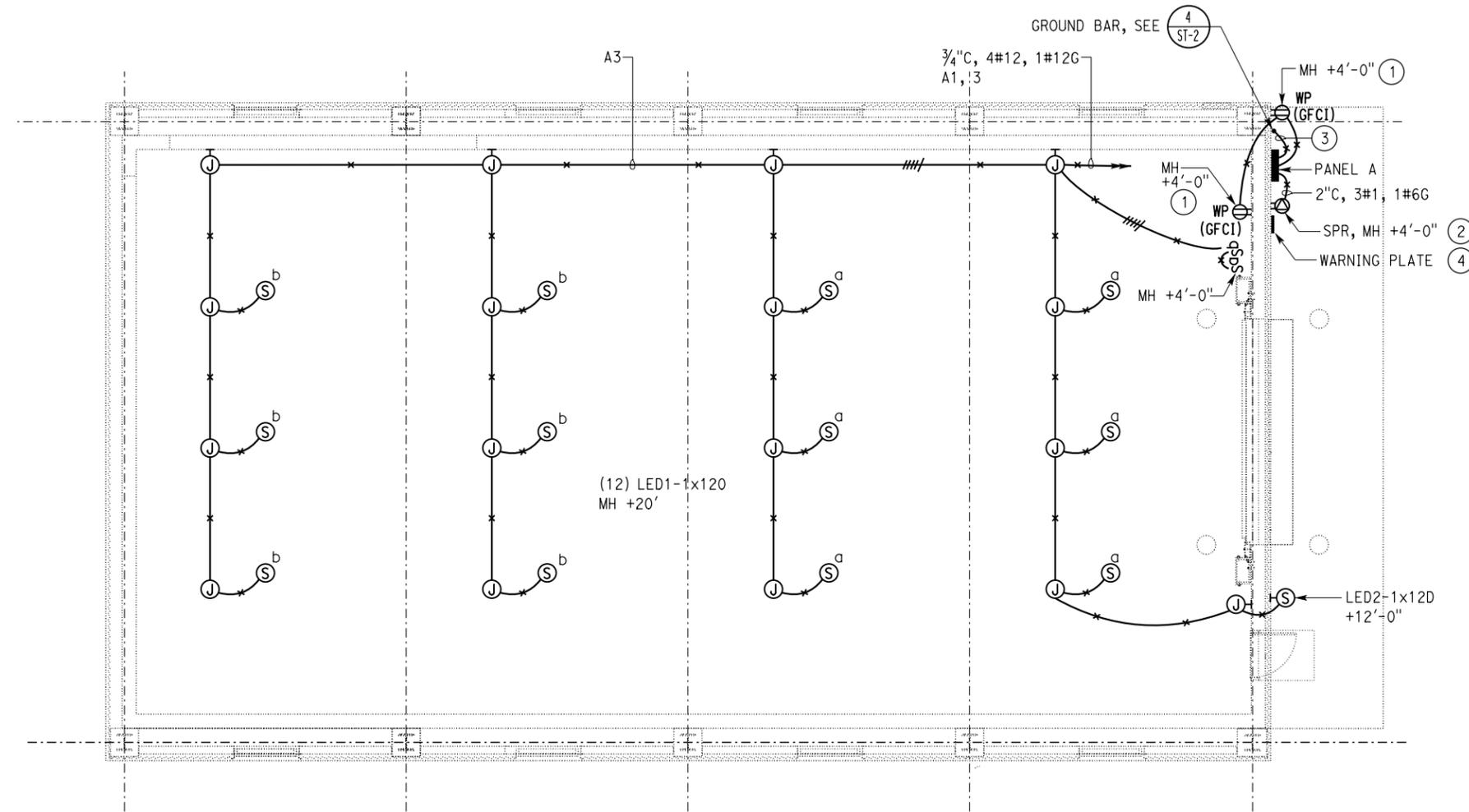
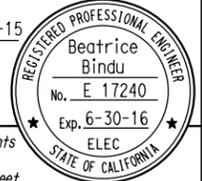
- AB Abandon. If applied to conduit, remove conductors.
- BC Install pull box in existing conduit run.
- CB Install conduit into existing pull box.
- CC Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF Conduit to remain for future use. Remove conductors, install pull rope and plug.
- FA Remove foundation above grade and abandon foundation below grade.
- RL Relocate equipment.
- RLD Relocated equipment.
- SC Splice new to existing conductors.

DESIGN	BY	Beatrice Bindu	CHECKED	Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 54M5759 POST MILE	ONYX SUMMIT SANDHOUSE NOTES AND ABBREVIATIONS	SHEET E0-1	
	DETAILS	BY	Yawen Sun	CHECKED					Beatrice Bindu
	QUANTITIES	BY	Beatrice Bindu	CHECKED					Mark Cheap
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					UNIT: 3597 CONTRACT No.: 08-1F1104 PROJECT NUMBER & PHASE: 08140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 6-12-12 11-17-15 11-18-15	SHEET OF 2 4	

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Reviewed by: *Andrew McSorley*
Approval date: 10/27/2015
CSFM * 01-36-11-0077

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	5759		28	29
<i>Beatrice Bindu</i>			11-18-15		
REGISTERED ELECTRICAL ENGINEER			DATE		
1-25-16			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



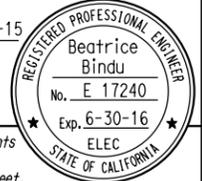
- GENERAL NOTES:**
- A. All conduits inside Sand House Building mounted below switch height must be PVC Coated Rigid Steel Conduit.
 - B. All conduits inside Sand House Building mounted above switch height must be non-metallic schedule 80, rigid PVC conduit with equipment grounding conductor, size 3/4" unless shown otherwise on plans. PVC conduits to be supported no more the 5'-0" on center.
 - C. All junction boxes inside building must be weatherproof type non-metallic PVC boxes.
 - D. Mount indoor luminaries at closest structural beam.
 - E. Mount junction boxes at least 15 feet off the ground.
 - F. Exact location of lighting fixtures per the Engineer's directions.
- NOTES:**
- ① Weatherproof GFCI duplex receptacle inside cast iron box with gasketed cover.
 - ② Receptacle to plug in portable generator. For wiring, see sheet EE1-2.
 - ③ 3/4" C, 1#6G to ground bar, with grounding bushing and swivel type heavy duty ground clamp.
 - ④ Warning Plate must read:
1-PHASE, 240-VOLTS ONLY.

PLAN
3/16" = 1'-0"

DESIGN SUPERVISOR <i>Jeremias S. Cu</i> DESIGN ENGINEER <i>Mark Cheap</i>	DESIGN BY Beatrice Bindu	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M5759	ONYX SUMMIT SANDHOUSE POWER AND LIGHTING PLAN	SHEET EE1-1 OF 4	
	DETAILS BY Dali Zhou/Yawen Sun	CHECKED Beatrice Bindu			POST MILE			
	QUANTITIES BY Beatrice Bindu	CHECKED Mark Cheap			UNIT: 3597 CONTRACT No.: 08-1F1104 PROJECT NUMBER & PHASE: 08140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 9-17-14 10-17-14 11-18-15	SHEET 3 OF 4

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 Reviewed by: *Mark*
 Andrew McSorley
 Approval date: 10/27/2015
 CSFM # 01-36-11-0077

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	5759		29	29
<i>Beatrice Bindu</i> REGISTERED ELECTRICAL ENGINEER			11-18-15	DATE	
1-25-16			PLANS APPROVAL DATE		
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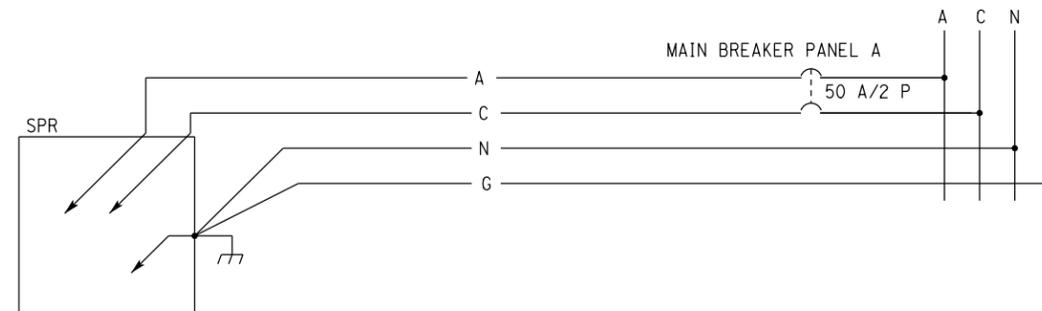
MAIN: 50 A, 2P, CB
 VOLTS: 120 / 240 V, SINGLE PHASE, 3-WIRE

PANEL A

FEEDER SIZE: 3#1, 1#6G
 LOCATION: SAND HOUSE BUILDING

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
ENTRANCE AND INTERIOR LIGHTS	7		20/1	1	•		2	20/1	4.0		RECEPTACLE
INTERIOR LIGHTING		7	20/1	3		•	4			-	SPARE
SPARE	-	-	20/2	5	•		6	20/2			SPARE
				7	•		8				
↓			20/1	9	•		10				
SPACE				11	•		12				
↓				13	•		14				
				15	•		16				
				17	•		18				
↓				19	•		20				

A	C	
11.0	7	TOTAL CONNECTED LOAD (AMPERES PER PHASE)



SPR WIRING DIAGRAM

DESIGN	BY	Beatrice Bindu	CHECKED	Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54M5759	ONYX SUMMIT SANDHOUSE PANEL SCHEDULE AND DIAGRAM	SHEET	OF	
	DETAILS	BY	Dali Zhou/Yawen Sun	CHECKED			Beatrice Bindu	POST MILE			4	4
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Mark Cheap					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3					UNIT: 3597 CONTRACT No.: 08-1F1104 PROJECT NUMBER & PHASE: 08140001601		DISREGARD PRINTS BEARING EARLIER REVISION DATES: 10-27-14, 03-17-15, 11-18-15			REVISION DATES (PRELIMINARY STAGE ONLY)		
P:\dist_08\0814000160_onyx_summit_sandhouse\expedit\0A_Reviewed\1-25-16_Elec\ee1_2_panel.dgn												